




Validation report form for CDM programme of activities

(version 01.0)

Complete this form in accordance with the attachment: "Instructions for filling out the validation report form for CDM programme of activities" at the end of this form.

VALIDATION REPORT

Title of the programme of activities (PoA)	Brazilian PoA for NAMA incentivized NCRE Projects
Version number of the validation report	2.2 (*) TN P-No.: 12491 – 15/176
Completion date of the validation report	01/11/2016
Version number of PoA-DD applicable to this validation report	04.1
Date when PoA-DD was uploaded for global stakeholder consultation	27/11/2015
Coordinating/managing entity (CME)	Tractebel Energia S.A.
Host Party(ies)	Brazil
Sectoral scope(s)	Scope: 1 / Technical Area: 1.2
Selected methodology(ies)	CDM Methodology: ACM0002 "Grid-connected electricity generation from renewable sources" – version 16.0
Selected standardized baseline(s)	-
Name of DOE	TÜV NORD CERT GmbH
Name, position and signature of the approver of the validation report	 Stefan Winter Final Approver

(*) Changes of version 2.1 from version 2.0 dated 2016-07-14 are only made to applicable UNFCCC requirements and LoA assessment. Changes of this version 2.2 from version 2.1 dated 2016-08-12 are only made to revise the LoA information. The changes do not impact the project activity content.

SECTION I. Executive summary

Tractebel Energia S.A. has commissioned the TÜV NORD JI/CDM Certification Program (CP) to validate the Programme of Activities:

“Brazilian PoA for NAMA incentivized NCRE Projects”

with regard to the relevant requirements of the UNFCCC for CDM project activities, as well as criteria for consistent project operations, monitoring and reporting. UNFCCC criteria include article 12 of the Kyoto Protocol, the modalities and procedures for CDM (Marrakech Accords) and the relevant decisions by COP/MOP and CDM Executive Board.

The PoA encompasses Component Project Activities within the Brazilian territory which implements new NCRE plants – solar, wind, small hydro (up to 30 MW), geothermal, wave and tidal power plants and which are connected to the Brazilian Interconnected System.

The following parties to the Kyoto Protocol, CME and project participants are involved in this project activity (Table A-1):

Table A-1: Project Parties and Coordinating / Managing Entity

Characteristic	Party	Project Participants	CME
Non-Annex 1 Country	Brazil	Tractebel Energia S.A.	X
		ENGIE Brasil	

SECTION II. Validation team, technical reviewer and approver

II.1. Validation team members

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Validation findings
1.	Team Leader	EI	Cruz	Sergio	BRTUV – Brazil	x	x	x	x
2.	Validator	EI	Lopes	Ricardo	BRTUV – Brazil	x	x	x	x

II.2. Technical reviewer and approver of the validation report

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	EI	Sebben	Marcelo	BRTUV – Brazil
2.	Approver	IR	Winter	Stefan	TÜV NORD CERT

SECTION III. Means of validation

III.1. Desk review

During the desk review all documents initially provided by the client and publicly available documents relevant for the validation were reviewed. The main documents are listed below:

- draft PoA-DD^{/POADD/};
- draft generic CPA-DD^{/POADD/};

- draft specific-case CPA-DD^{/CPADD/};
- documents of CDM prior consideration and starting date^{/PSD/};
- regulations and approval of project activity^{/EIA/LIC/};
- technical details of the project^{/TD/};
- host government approval^{/LoA/} (if available);
- financial analysis^{/IRR/};
- plant load factor studies^{/PLF/};
- supporting documents demonstrating the additionality^{/FD/};
- expected emission reductions^{/XLS/};
- local stakeholders' consultations^{/SHCP/};
- national legislation^{/LEGIS/}.

Other supporting documents, such as publicly available information on the UNFCCC website and background information were also reviewed.

III.2. On-site inspection

Duration of on-site inspection: 08/12/2015 to 16/12/2015				
No.	Activity performed on-site	Site location	Date	Team member ¹⁾
1.	Opening meeting	Tractebel office (Florianópolis/SC)	08/12/2015	SC / RL
2.	Interviews with company personnel	Tractebel office	08/12/2015	SC / RL
3.	Assessment of prior consideration documents and stakeholder consultation process / Assessment of financial analysis	Tractebel office	08/12/2015	SC / RL
4.	Assessment of financial investment analysis and evidences	Tractebel office	09/12/2015	RL
5.	Assessment of evidences (additional documentation)	Tractebel office	09/12/2015	SC
6.	Assessment of evidences (additional documentation)	Tractebel office	10/12/2015	SC / RL
7.	Presentation of findings (office round)	Tractebel office	10/12/2015	SC / RL
8.	Closing meeting (office round)	Tractebel office	10/12/2015	SC / RL
9.	Visit on site (construction)	Santa Mônica Complex (Trairi/CE)	16/12/2015	SC
10	Closing meeting	Santa Mônica Complex	16/12/2015	SC

¹⁾ Team Member:

- SC = Sergio Cruz
- RL = Ricardo Lopes

III.3. Interviews

No.	Interviewee			Date	Subject	Team member ¹⁾
	Last name	First name	Affiliation			
1.	Zimmermann	Marcio	Tractebel	08/12/2015	General aspects of the PoA and CPA	SC / RL
2.	Costa	David	ENGIE	08/12/2015	General aspects of the PoA and CPA	SC / RL
3.	Bezerra	Rodrigo ²⁾	Climate Link	08/12/2015	General aspects of the PoA and CPA	SC / RL
4.	Takamori	Eduardo	ENGIE	09/12/2015	Financial Analysis	SC / RL
5.	Poyer	Felipe	Tractebel	10/12/2015	Monitoring Procedures	SC / RL

6.	Boselli	Murilo	Tractebel	16/12/2015	Site Inspection	SC
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¹⁾ *Team Member:*

- SC = Sergio Cruz
- RL = Ricardo Lopes

²⁾ *by phone*

III.4. Sampling approach

III.4.1. Sampling approaches during validation

<input checked="" type="checkbox"/>	No sampling approach has been used by the VT to validate any parameter			
<input type="checkbox"/>	A sampling approach has been applied by the VT for the following parameter(s):			
Parameter	Sampling approach ¹⁾	Sampling Type ²⁾	Population	Sample Size
-	-	-	-	-

¹⁾ *Sampling Approaches:*

- SiRS: Simple Random Sampling
- StRS: Stratified Random Sampling
- SS: Systematic Sampling
- CS: Cluster Sampling
- MSS: Multi-stage Sampling

²⁾ *Sampling Types:*

- PS: Parameter Sampling

III.4.2. Sampling approaches during on-site inspection

<input checked="" type="checkbox"/>	No sampling approach has been used by the VT at on-site inspection			
<input type="checkbox"/>	A sampling approach has been applied by the VT for field check of the following parameter(s):			
Parameter	Sampling approach ¹⁾	Sampling Type ²⁾	Population	Sample Size
-	-	-	-	-

¹⁾ *Sampling Approaches:*

- SiRS: Simple Random Sampling
- StRS: Stratified Random Sampling
- SS: Systematic Sampling
- CS: Cluster Sampling
- MSS: Multi-stage Sampling

²⁾ *Sampling Types:*

- AS: Acceptance Sampling
- PS: Parameter Sampling
- COM: Full data check at higher data aggregation levels and sampling at original data levels

III.5. Clarification requests, corrective action requests and forward action requests raised

Areas of validation of compliance	No. of CL	No. of CAR	No. of FAR
Part I	-	-	-
General description of the PoA	-	-	-
• PoA design document	1	-	-
• Purpose and general description of the PoA	1	-	-
o Generic CPA(s)	-	-	-
o Specific-case CPA(s) submitted with the PoA	-	-	-
Demonstration of additionality and development of eligibility criteria	-	-	-
• Demonstration of additionality of the PoA	-	-	-
• Eligibility criteria for inclusion of CPA(s) in the PoA	-	1	-
Management system	-	-	-
Duration of the PoA	-	-	-
Environmental impacts	-	-	-
Local stakeholder consultation	-	1	-
Approval and authorization	-	-	-
Global stakeholder consultation	-	-	-
Contribution to sustainable development	-	-	-

Modalities of communication	-	-	-
Part II	-	-	-
General description of generic CPA	1	-	-
Application of a baseline and monitoring methodology and standardized baseline	-	-	-
<ul style="list-style-type: none"> Applicability of selected methodology(ies) and/or standardized baseline 	-	-	-
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Deviation from methodology 	-	-	-
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Clarification on applicability of methodology, tool and/or standardized baseline 	-	-	-
<ul style="list-style-type: none"> Sources and GHGs 	-	-	-
<ul style="list-style-type: none"> Description of baseline scenario 	-	-	-
<ul style="list-style-type: none"> Demonstration of eligibility for a generic CPA 	1	-	-
<ul style="list-style-type: none"> Estimation of emission reduction or net GHG removals by sinks of the generic CPA 	-	-	-
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Explanation of methodological choices 	-	-	-
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Data and parameters fixed ex ante 	-	-	-
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Ex ante calculation of emission reductions or net GHG removals by sinks 	-	-	-
<ul style="list-style-type: none"> Application of the monitoring methodology and description of the monitoring plan 	-	-	-
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Data and parameters to be monitored by the generic CPA 	-	1	-
<ul style="list-style-type: none"> <ul style="list-style-type: none"> Description of the monitoring plan for the generic CPA 	-	-	-
Total	4	3	-

SECTION IV. Internal quality control

Before the submission of the final validation report, a technical review of the whole validation procedure was carried out. The technical reviewers are competent GHG auditors where at least one is being appointed for the scope this project falls under. The technical reviewers are not considered to be part of the validation team and thus not involved in the decision making process up to the technical review.

As a result of the technical review process the validation opinion and the topic specific assessments as prepared by the validation team leader may have been confirmed or revised. Furthermore reporting improvements might have been achieved.

After the successful technical review, an overall (esp. procedural) assessment of the complete validation has been carried out by a senior assessor located in the accredited premises of TÜV NORD.

After this step the submission for requesting the registration of the project activity is conducted.

SECTION V. Validation opinion

Tractebel Energia S.A. has commissioned the TÜV NORD JI/CDM Certification Program (CP) to validate the Programme of Activities:

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In detail the conclusions can be summarized as follows:

- the PoA is in line with all relevant host country criteria (Brazil) and all relevant UNFCCC requirements for CDM. At the time of the completion of the validation, the LoA was pending. For the Brazilian DNA, a positive validation opinion is a prerequisite for the host government approval and thus, the LoA could not be considered at version 2.0 of validation report. Project activity approval has been obtained from DNA of Brazil, vide the Letter of Approval issued on 2016-10-13. Changes of version 2.1 from version 2.0 dated 2016-07-14 are only made to applicable UNFCCC requirements and LoA assessment. Changes of this version 2.2 from version 2.1 dated 2016-08-12 are only made to revise the LoA information. The changes do not impact the project activity content;
- the PoA additionality is sufficiently justified in the PoA-DD;

- the eligibility criteria established for CPA inclusions are deemed appropriate and sufficient;
- the monitoring plan is transparent and adequate;
- all information has been consistently applied in the generic CPA-DD form;

The conclusions of this report show, that the PoA, as it was described in the project documentation, is in line with all criteria applicable for the validation.

São Paulo, 01/11/2016



Sergio Cruz
Team Leader

SECTION VI. Validation findings

PART I. Programme of activities

SECTION A. General description of the PoA

A.1. PoA design document

Means of validation	<p>A draft PoA-DD was submitted to the validation team by CME.</p> <p>By means of the UNFCCC website it has been checked whether the latest applicable PoA-DD template (CDM-PoA-DD-FORM) has been used.</p> <p>Further it has been checked whether the latest instructions for filling out the PoA-DD template have been followed. Every section has been checked against the respective guidance.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /POADD-T/ • /unfccc/ 	
Findings	<input checked="" type="checkbox"/>	The latest reporting template CDM-PoA-DD-FORM as listed on the UNFCCC website has been used for the Programme Design Document to be uploaded.
	<input checked="" type="checkbox"/>	The latest instructions for filling out the PoA-DD have been followed. All raised findings have been correctly solved.
	<input checked="" type="checkbox"/>	<p>The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</p> <p>CL A1: According to the "Instructions for filling out the project design document form for CDM project activities", some issues are not correct:</p> <ol style="list-style-type: none"> 1. the version numbers of the following documents are outdated throughout the PoA-DD: <ol style="list-style-type: none"> a. CDM Project Standard; b. Standard "Demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programmes of activities"; c. Tool to calculate the emission factor for an electricity system; 2. at Section B.1 of the Generic CPA of the PoA-DD, the references to the UNFCCC CDM website for the methodology and methodological tools are missing.
Conclusion	<input type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input checked="" type="checkbox"/>	<p>The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</p> <p>The latest applicable PoA-DD template (CDM-PoA-DD-FORM - version 06.0) has been used and correctly filled out.</p>

A.2. Purpose and general description of the PoA

Means of validation	<p>By means of comparison of the PoA-DD presented to the validation team by CME and interviews with representatives, the validation team has assessed the description of the proposed PoA in accordance with applicable related validation requirements of VVS.</p>	
Findings	<input checked="" type="checkbox"/>	The PoA-DD contains a clear, accurate and complete programme description.
	<input checked="" type="checkbox"/>	The information regarding the project participants and CME of the PoA is listed at the PoA-DD and it is consistent with Appendix 1 that contains the contact information.
	<input type="checkbox"/>	The PoA qualifies as an afforestation and reforestation (A/R) CDM project activity.
	<input checked="" type="checkbox"/>	<p>The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</p> <p>CL A2: The installed capacity of Tractebel is not consistent with the number</p>

		<i>given in section D.5 of CPA-DD, taken from Administration Report and Financial Statements of the Exercises 2013 and 2012 of Tractebel.</i>
Conclusion	<input type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input checked="" type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		<p>The Coordinating/managing entity of the PoA is Tractebel Energia S.A. The project participants are: - Tractebel Energia S.A. - ENGIE Brasil.</p> <p>The framework developed for the implementation of the proposed PoA, and defining a proposed generic CPA and specific-case CPA under the PoA was developed as follows:</p> <ol style="list-style-type: none"> any CPA to be included in the PoA can be developed, implemented and/or operated by: <ol style="list-style-type: none"> Tractebel Energia S.A. or any of its subsidiaries, branches, shareholding companies, joint ventures or partnerships with other companies; Tractebel Energia S.A., as a subsidiary company from the ENGIE Group, or any subsidiaries, branches or shareholding companies of ENGIE Group; any entrepreneurs acting in the Brazilian Power Sector, as CPA proponents, conditional upon the eligibility criteria of this PoA and Tractebel Energia S.A. approval; the coordinating/managing entity of all CPAs will be Tractebel Energia S.A.; each CPA will include one or more non-conventional renewable energy power plant(s) which will be managed individually and will report directly to Tractebel Energia S.A.; Tractebel Energia S.A. will conduct the inclusion of the CPAs in the PoA and provide proper CDM training to the CPA personnel. <p>The proposed PoA seeks to promote the implementation of several non-conventional renewable energy projects, while providing an important contribution to renewable and clean non-conventional alternatives for electricity generation and achievement of the voluntary climate change mitigation goals of Brazil. The PoA also intends to sustainably develop regional economies and consequently increase the quality of life in local communities.</p> <p>The proposed PoA is a voluntary action by the Tractebel Energia S.A., as there are no mandatory laws in Brazil that requires the CME or any other party to develop a PoA for NCRE projects. In addition, NCRE projects are also voluntary at the geographical boundary of the PoA (Brazil).</p> <p>The PoA intends to contribute to sustainable development by:</p> <ol style="list-style-type: none"> reducing GHG and air pollutants emissions from the local energy matrix; by improving grid stability by the diversification of power generation sources; improving the local infrastructure; the stimulation of the regional economy increasing tax revenues and job opportunities for local workers and service suppliers; stimulating the local development of a proficient tertiary sector creating opportunities for education, professionalization and employment; inducing the development of national technology and know-how; the generation of extra income for the landowners in cases of land leasing. <p>Physical/geographical boundary of the PoA is national territory of Brazil.</p> <p>The CPAs in the PoA will implement the following technologies/measures: solar, wind, hydro, geothermal, wave and tidal power.</p> <p>No public funding has been observed.</p>

A.2.1. Generic CPA(s)

Title, identification/reference number and/or version number	Sectoral scope(s)	Selected methodology(ies) and/or standardized baseline(s)
Generic component project activity (CPA) – METHOD FOR WIND, SOLAR, WAVE AND TIDAL PROJECTS	1 – Energy industries (renewable/non-renewable sources)	<u>Methodology:</u> <ul style="list-style-type: none"> - ACM0002 – Grid-connected electricity generation from renewable sources – v. 16.0 <u>Tools:</u> <ul style="list-style-type: none"> - Tool for the demonstration and assessment of additionality – v. 07.0.0 - Tool to calculate the emission factor for an electricity system – v. 05.0
Generic component project activity (CPA) – METHOD FOR SMALL HYDROPOWER PLANT PROJECTS WITH OR WITHOUT RESERVOIR	1 – Energy industries (renewable/non-renewable sources)	<u>Methodology:</u> <ul style="list-style-type: none"> - ACM0002 – Grid-connected electricity generation from renewable sources – v. 16.0 <u>Tools:</u> <ul style="list-style-type: none"> - Tool for the demonstration and assessment of additionality – v. 07.0.0 - Tool to calculate the emission factor for an electricity system – v. 05.0
Generic component project activity (CPA) – METHOD FOR GEOTHERMAL PROJECTS	1 – Energy industries (renewable/non-renewable sources)	<u>Methodology:</u> <ul style="list-style-type: none"> - ACM0002 – Grid-connected electricity generation from renewable sources – v. 16.0 <u>Tools:</u> <ul style="list-style-type: none"> - Tool for the demonstration and assessment of additionality – v. 07.0.0 - Tool to calculate the emission factor for an electricity system – v. 05.0

The exact reference for applied methodology and tools can be verified at Appendix 3 of this Report.

In accordance with the relevant requirements in the VVS, four technologies/measures (wind, solar, wave and tidal) have been combined in one generic CPA-DD, as they have same type with respect to demonstration of additionality, emission reduction calculation and monitoring, and two generic CPA-DDs have been prepared for each of the following specific technology/measure: small hydro and geothermal.

A.2.2. Specific-case CPA(s) submitted with the PoA

Specific-case CPA(s) reference number(s)	Generic CPA title, identification/ reference	Host Party	Crediting period dates of the specific-case CPA
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	number and version number		
Santa Mônica Wind Complex – CPA 1	Generic component project activity (CPA) – METHOD FOR WIND, SOLAR, WAVE AND TIDAL PROJECTS – version 1.0	Brazil	01/06/2016 – 31/05/2023 (both days included)

SECTION B. Demonstration of additionality and development of eligibility criteria

B.1. Demonstration of additionality of the PoA

Means of validation	<p>By means of comparison of the PoA-DD with the applied CDM methodology and “Tool for the demonstration and assessment of additionality” – version 07.0.0, the validation team has assessed the additionality of the programme of activities in accordance with applicable related validation requirements in the VVS and PoA Standard.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ • /unfccc/ • /POAS/ 		
Findings	<input checked="" type="checkbox"/>	The PoA-DD describes how the programme is additional in accordance with the requirements.	
	<input checked="" type="checkbox"/>	The demonstration of additionality will be done at the CPA level.	
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:	
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.	
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.	
		<p>The PoA-DD follows the requirements of the PoA Standard in order to demonstrate that none of the CPAs to be implemented would occur in the case of the absence of the PoA.</p> <p>The additionality will be demonstrated at the CPA level following the requirements set at the PoA-DD.</p>	

B.2. Eligibility criteria for inclusion of CPA(s) in the PoA

No.	Eligibility criteria as set out in the PoA-DD	Means of validation/Findings/Conclusion
a.	All installations in a CPA shall take place within the geographical boundaries of Brazil and shall be connected to the SIN grid.	The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with paragraph 18 (a) of PoA Standard. The condition has to be fulfilled as per CDM requirements and Brazilian electric sector framework.
b.	<p>The CME shall demonstrate that each CPA does not lead to double counting of emission reduction by confirming that each CPA is not part of any of the categories below:</p> <p>(1) Standalone CDM project activity;</p> <p>(2) Bundled CDM project activity;</p>	The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with paragraph 18 (b) of PoA Standard. The condition has to be fulfilled as per the CDM requirements.

No.	Eligibility criteria as set out in the PoA-DD	Means of validation/Findings/Conclusion
	(3) Another registered PoA.	
c.	<p>The CPA shall consist of a Greenfield grid connected renewable energy power generation project of one of the following types:</p> <ul style="list-style-type: none"> - Solar power plant/unit; - Wind power plant/unit; - Small hydro power plant/unit with or without reservoir (currently defined by ANEEL as between 1 MW and 30 MW); - Geothermal power plant/unit; - Wave power plant/unit; - Tidal power plant/unit. <p>All CPAs will be required to be in conformity with national requirements where available.</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (c) of PoA Standard. The condition has to be fulfilled as per the applied methodology applicability conditions, CDM requirements and Brazilian electric sector framework.</p>
d.	<p>The CPA start date shall not be on or before the start date of PoA: 05/05/2014, date which the Prior Consideration of the CDM has been published in the UNFCCC website.</p> <p>The CPA start date should be the earliest date at which either the implementation or construction or real action of a project activity begins in line with "Glossary of CDM terms".</p> <p>Documentary evidence of the CPA start date shall be provided by the time of inclusion of each CPA in the PoA.</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 14 (d) of PoA Standard. The condition has to be fulfilled as per PoA requirements to ensure that no CPA starts before the start date of the PoA on 2014-05-05.</p>
e.	<p>The CPA must comply with the following requirements as per the provisions established in the methodology ACM0002 (version 16.0):</p> <ul style="list-style-type: none"> - The CPA shall consist of a grid-connected renewable energy power generation project activity that installs a Greenfield power plant. - The CPA shall include renewable energy power plant/unit of one of the following types: <ul style="list-style-type: none"> • Small hydro power plant/unit with or without reservoir (currently defined by ANEEL as between 1 MW and 30 MW); 	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (e) of PoA Standard. The condition has to be fulfilled as per CDM requirements.</p>

No.	Eligibility criteria as set out in the PoA-DD	Means of validation/Findings/Conclusion
	<ul style="list-style-type: none"> • Wind power plant/unit; • Geothermal power plant/unit; • Solar power plant/unit; • Wave power plant/unit; • Tidal power plant/unit. <p>- In case of hydro power plants, one of the following conditions shall apply:</p> <p>(a) The project activity is implemented in existing single or multiple reservoirs, with no change in the volume of any of the reservoirs; or</p> <p>(b) The project activity is implemented in existing single or multiple reservoirs, where the volume of the reservoir(s) is increased and the power density is greater than 4 W/m²; or</p> <p>(c) The project activity results in new single or multiple reservoirs and the power density is greater than 4 W/m²; or</p> <p>(d) The project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs is lower than or equal to 4 W/m², all of the following conditions shall apply:</p> <p>(i) The power density calculated using the total installed capacity of the integrated project, is greater than 4 W/m²;</p> <p>(ii) Water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity;</p> <p>(iii) Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m² shall be:</p> <p>a. Lower than or equal to 15 MW; and</p> <p>b. Less than 10 per cent of the total installed capacity of</p>	

No.	Eligibility criteria as set out in the PoA-DD	Means of validation/Findings/Conclusion
	<p>integrated hydro power project.</p> <p>- In the case of integrated hydro power projects, the project proponent shall:</p> <p>(a) Demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively contribute to the generation capacity of the integrated hydro power project; or</p> <p>(b) Provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of the water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for a minimum of five years prior to implementation of CDM project activity.</p> <p>- The CPA shall not consist of:</p> <ul style="list-style-type: none"> ▪ Project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site; ▪ Biomass fired power plants/units. ▪ The CPA shall also comply with the applicability conditions included in the tools referred in the methodology ACM0002 (version 16.0) and applicable to the CPAs included in the present PoA: <p>(a) "Tool to calculate the emission</p>	

No.	Eligibility criteria as set out in the PoA-DD	Means of validation/Findings/Conclusion
	<p>factor for an electricity system" (version 05.0);</p> <p>(b) "Tool for the demonstration and assessment of additionality" (version 07.0.0);</p> <p>(c) "Assessment of the validity of the original/current baseline and update of the baseline at the renewal of the crediting period" (version 03.0.1).</p>	
f.	<p>The CPA shall demonstrate additionality as per the stepwise procedure contained in the "Tool for the demonstration and assessment of additionality" (version 7.0.0):</p> <p>Step 0: Demonstration whether the proposed project activity is the first-of-its-kind;</p> <p>Step 1: Identification of alternatives to the project activity;</p> <p>Step 2: Investment analysis;</p> <p>Step 3: Barriers analysis; and</p> <p>Step 4: Common practice analysis</p> <p>Alternatively, the project proponents have also the option to apply the "simplified procedure to demonstrate additionality", as per the provisions contained in section 5.3.1 of the methodology ACM0002 (version 16.0).</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (f) of PoA Standard. The condition has to be fulfilled as per CDM requirements.</p> <p>The additionality of the project has to be assessed against "Tool for the demonstration and assessment of additionality" and alternatively, as per the provisions contained in section "5.3.1. Simplified procedure to demonstrate additionality" of the methodology ACM0002 (version 16.0).</p>
g.	<p>- Environmental impact analysis shall be conducted at CPA level for all CPAs with installed capacity higher than 10 MW, according to the applicable environmental laws and regulations.</p> <p>- Local stakeholder consultation is conducted at the PoA level and according to the Brazilian DNA requirements to issue the Letter of Approval. The CME does not stipulate any specific requirement for local stakeholder consultations at CPA level.</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (g) of PoA Standard. The condition has to be fulfilled as per the Brazilian environmental legislation and the CDM requirements.</p>
h.	<p>The financing for the CPA will be confirmed to be consistent with the PoA financing described in the PoA-DD. A confirmation will be required</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in order to conform to the requirements of paragraph 18 (h). The use of financing of official development assistance is not</p>

No.	Eligibility criteria as set out in the PoA-DD	Means of validation/Findings/Conclusion
	that no funding is coming from Annex I parties, or if it does, that this is not a diversion of ODA.	allowed in line with CDM requirements.
i.	<p>The CPA shall correspond with the target group:</p> <p>Greenfield grid-connected (SIN) renewable energy power projects, such as: small hydro (currently defined by ANEEL as between 1 MW and 30 MW), solar, wind, geothermal, wave and tidal.</p> <p>The projects are not expected to have any distribution mechanisms.</p>	The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with paragraph 18 (i) of PoA Standard. The condition has to be fulfilled as per the CDM requirements and Brazilian electric sector framework.

The following eligibility criteria required per the PoA Standard (j, k and l) are not applicable to the present PoA:

- (j) the conditions related to sampling requirements for the PoA in accordance with the “Standard for sampling and surveys for CDM project activities and programme of activities”: the condition is indeed not applicable as all CPAs to be included shall be individually monitored, so no sampling will be applied;
- (k) the conditions that ensure that every CPA in aggregate meets the small-scale or micro-scale threshold criteria and remains within those thresholds throughout the crediting period of the CPA: the condition is indeed not applicable as the large scale approved consolidated methodology ACM0002 – v. 16.0 is applied to the PoA and to all CPAs to be included. Even the CPAs that might meet small scale threshold shall comply with the conditions of ACM0002 – v. 16.0 to be included to the PoA;
- (l) the requirements for the debundling check, in case CPAs belong to small-scale (SSC) or micro-scale project categories: the condition is indeed not applicable as the large scale approved consolidated methodology ACM0002 – v. 16.0 is applied to the PoA and to all CPAs to be included. Even the CPAs that might meet small scale threshold shall comply with the conditions of ACM0002 – v. 16.0 to be included to the PoA. So no debundling check will be applied.

The respective requirements have widely been complied with. However, the following issue needed to be addressed in this context:

CAR B1: At Section B.2 of Part I of the PoA-DD, the Common Practice Analysis referred at the eligibility criterion (f) is not correct as the demonstration of additionality shall be done for each specific project activity (CPA) and not to the PoA.

The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.

All eligibility criteria established for the CPA inclusion in the PoA are clear, appropriate and complete. In addition, the criteria are verifiable, sufficiently objective and allow the assessment for the inclusion of CPAs in the PoA.

SECTION C. Management system

Means of validation	<p>During the validation, management system was assessed in accordance with the applicable requirements in the VVS and the PoA Standard.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/
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	<ul style="list-style-type: none"> • /MT/ • /unfccc/ • /POAS/ 	
Findings	<input checked="" type="checkbox"/>	The management system enables the CME to check the features of potential CPAs been developed, implemented and made available to the DOE.
	<input checked="" type="checkbox"/>	The management system includes all necessary provisions (e.g. definition of roles, record control process, etc.).
	<input checked="" type="checkbox"/>	The monitoring plan covers all monitoring parameters given in the applied monitoring methodology or all parameters which have to be monitored w.r.t. the CPA/PoA boundary.
	<input checked="" type="checkbox"/>	The monitoring plan to be implemented and all monitoring arrangements are feasible within the CPA design.
	<input checked="" type="checkbox"/>	The means of implementation of the monitoring plan, including data management and quality assurance and quality control procedures are sufficient to ensure that the ERs to be achieved by each individual CPA can be properly reported and verified.
	<input type="checkbox"/>	A sampling plan has been provided in line with the standard for sampling and surveys.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: -
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	<p>A feasible management system has been set which enables the CME to have full access to the monitoring of each specific CPA and provide traceable data to the DOE and to ensure a proper reporting and verification of the ERs to be achieved by each individual CPA.</p> <p>A CDM team of the PoA will be appointed by the CME and specific training will be provided.</p> <p>Means for the technical review for the inclusion of a CPA, procedures to avoid double counting, procedures recording and controlling of documentation, measures for continuous improvements of the PoA and clarifications to personnel operating the CPAs are set to be implemented by the CME.</p>	

SECTION D. Duration of the PoA

Means of validation	<p>By means of comparison of the PoA-DD and evidences presented, the validation team has checked the compliance of the start date of the PoA in accordance with the applicable requirements in the VVS.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /PSD/ • /unfccc/ 	
Findings	<input checked="" type="checkbox"/>	The start date of the PoA was correctly determined and correctly evidenced.
	<input checked="" type="checkbox"/>	The PoA-DD contains a clear duration of the proposed PoA and in accordance with the requirements on duration of programme of activities and component project activities in the Project Standard.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: -
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	The start date of the PoA is 2014/05/05 which is the date of notification of the intention to seek the CDM status by the coordinating/managing entity to the DNA of the Brazil and the secretariat.	

	<p>The start date is confirmed by the letters sent to the Brazilian DNA and to the secretariat by the CDM programme of activities prior consideration form on 2014-05-05.</p> <p>The duration of the PoA is 28 years, as confirmed in section D.2 of the PoA-DD and interviews with project participant and CME representatives.</p>
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SECTION E. Environmental impacts

Means of validation	<p>By means of provided evidences and by the assessment of host party regulations regarding the environment, the validation team has checked the compliance of the analysis of the environmental impacts with applicable validation requirements related to the environmental impacts in the VVS.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /EIA/ • /unfccc/ 												
Findings	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>The programme complies with host Party requirements for an Environmental Impact Assessment.</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>The environmental analysis is performed at the CPA level.</td></tr> <tr> <td><input type="checkbox"/></td><td>The PoA qualifies as a small scale CDM project activity as defined in decision 4 / CMP.1 annex II.</td></tr> <tr> <td><input type="checkbox"/></td><td>The PoA qualifies as an afforestation and reforestation (A/R) CDM project activity.</td></tr> <tr> <td><input type="checkbox"/></td><td>The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</td></tr> <tr> <td></td><td>-</td></tr> </table>	<input checked="" type="checkbox"/>	The programme complies with host Party requirements for an Environmental Impact Assessment.	<input checked="" type="checkbox"/>	The environmental analysis is performed at the CPA level.	<input type="checkbox"/>	The PoA qualifies as a small scale CDM project activity as defined in decision 4 / CMP.1 annex II.	<input type="checkbox"/>	The PoA qualifies as an afforestation and reforestation (A/R) CDM project activity.	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:		-
<input checked="" type="checkbox"/>	The programme complies with host Party requirements for an Environmental Impact Assessment.												
<input checked="" type="checkbox"/>	The environmental analysis is performed at the CPA level.												
<input type="checkbox"/>	The PoA qualifies as a small scale CDM project activity as defined in decision 4 / CMP.1 annex II.												
<input type="checkbox"/>	The PoA qualifies as an afforestation and reforestation (A/R) CDM project activity.												
<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:												
	-												
Conclusion	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.</td></tr> <tr> <td><input type="checkbox"/></td><td>The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</td></tr> </table> <p>The analysis of environmental impacts is considered significant by the CME or by the host Party and environmental impact assessment are performed at the specific-case CPA level.</p> <p>For this type of project, the host party requires an environmental assessment which shall be prepared by a third party and submitted to the state environmental authority to start the licensing process.</p> <p>In addition, previous licenses and installation licenses are to be issued by local environmental agency.</p>	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.								
<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.												
<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.												

SECTION F. Local stakeholder consultation

Means of validation	<p>By means of provided evidences and by the assessment of host party regulations, the validation team has checked the compliance of the local stakeholder consultation process with applicable validation requirements related to the local stakeholder consultation in the VVS.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /CPADD/ • /SHCP/ • /dna/ • /unfccc/ 								
Findings	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>An exemption from the requirement of paragraph 78 of the CDM Project Standard – version 09.0 was granted to the programme of activities by the EB. The requirement of paragraph 77 of the CDM Project Standard – version 07.0 was accomplished.</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>The local stakeholder consultation process was completed before the submission of the PoA-DD to the DOE.</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>The local stakeholder consultation process can be assessed as adequate and in accordance with host Country requirements.</td></tr> <tr> <td><input type="checkbox"/></td><td>Not applicable as the local stakeholder consultation process was carried out at</td></tr> </table>	<input checked="" type="checkbox"/>	An exemption from the requirement of paragraph 78 of the CDM Project Standard – version 09.0 was granted to the programme of activities by the EB. The requirement of paragraph 77 of the CDM Project Standard – version 07.0 was accomplished.	<input checked="" type="checkbox"/>	The local stakeholder consultation process was completed before the submission of the PoA-DD to the DOE.	<input checked="" type="checkbox"/>	The local stakeholder consultation process can be assessed as adequate and in accordance with host Country requirements.	<input type="checkbox"/>	Not applicable as the local stakeholder consultation process was carried out at
<input checked="" type="checkbox"/>	An exemption from the requirement of paragraph 78 of the CDM Project Standard – version 09.0 was granted to the programme of activities by the EB. The requirement of paragraph 77 of the CDM Project Standard – version 07.0 was accomplished.								
<input checked="" type="checkbox"/>	The local stakeholder consultation process was completed before the submission of the PoA-DD to the DOE.								
<input checked="" type="checkbox"/>	The local stakeholder consultation process can be assessed as adequate and in accordance with host Country requirements.								
<input type="checkbox"/>	Not applicable as the local stakeholder consultation process was carried out at								

		the CPA level.
	<input checked="" type="checkbox"/>	<p>The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</p> <p>CAR F1: According to the PS v.09 paragraph 78, the coordinating/managing entity shall complete the local stakeholder consultation process before the start date of the PoA, as defined in the "Glossary of CDM terms".</p> <p>Nevertheless, relevant stakeholders have been invited for the consultation on 2015-10-19 and the date of notification of the intention to seek the CDM status by the CME to the DNA of the Brazil and the secretariat is 2014-05-05.</p>
Conclusion	<input type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input checked="" type="checkbox"/>	<p>The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</p> <p>Several relevant stakeholders have been invited (2015-10-19) for the consultation prior to the publication of the PoA-DD and in accordance with the requirements of the Brazilian DNA:</p> <ol style="list-style-type: none"> Executive Secretariat of the Interministerial Commission on Global Climate Change – CIMGC; Brazilian Non-Government Organizations Forum and Social Movements for the Environment and Development – FBOMS; Federal Public Attorney; Electricity Sector Environment Forum – FMASE; Brazilian Forum on Climate Change – FBMC; Climate Observatory. <p>They have been invited to consultation following host country DNA rules (Resolution 1, 7 and 9) prior to the publication of PDD for GSC and according to PP there was no negative comment from local stakeholders received to date.</p> <p>The only comment received during the consultation was from the President of FMASE asking for further information about the local stakeholder consultation process and the reasons for its completion. The e-mail was answered with the clarification about the local stakeholder consultation process for Clean Development Mechanism and the Brazilian Designated National Authority and about the importance of the FMASE's opinion as it congregates 19 national professional associations from the Brazilian Electric Sector.</p> <p>No further comments have been received.</p> <p>The local stakeholder consultation process was completed before the submission of the proposed CDM programme of activities to the DOE for validation; thus, it was performed in accordance with the requirement of paragraph 77 of the CDM Project Standard – version 07.0.</p> <p>An exemption to the requirement of paragraph 78 of the CDM Project Standard – version 09.0 was granted to the project activity by the EB on 2016-02-11 (Reference: INQ-043723)^{/SHCP/}.</p>

SECTION G. Approval and authorization

Means of validation		<p>By means of the LoA issued by the DNA of Brazil, the validation team will be able to assess the approval from the DNA in accordance with related applicable validation requirements in the VVS.</p> <p>As for the Brazilian DNA, a positive validation opinion is a prerequisite for the host government approval and thus the LoA could not be considered at version 2.0 of validation report.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /CPADD/ • /LoA/ • /unfccc/
Findings	<input checked="" type="checkbox"/>	All DNAs from each party involved in the PoA issued a LoA.
	<input checked="" type="checkbox"/>	<p>The LoA(s) confirms:</p> <ul style="list-style-type: none"> - that the party is a party to the Kyoto Protocol; - that participation is voluntary; - that the project contributes to sustainable development (only host party

		LoA); - the precise project activity title in the PDD intended for submission for registration.
	<input checked="" type="checkbox"/>	The LoA is authentic.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: -
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		At the time of the completion of this report, the LoA of the Brazilian DNA (host country) is pending. For the Brazilian DNA, a positive validation opinion is a prerequisite for the host government approval and thus the LoA cannot be considered at the present validation stage. According to CDM requirements, at the validation stage, a party may or may not have provided its approval by the time of making the PoA-DD public. The approval of the involved parties is required at the time of registration request. Hence, the Request for Registration will not be submitted before a LoA is issued by the Brazilian DNA and its authenticity verified and confirmed that it complies with all CDM requirements. Project activity approval has been obtained from DNA of Brazil, vide the Letter of Approval issued on 2016-10-13. Changes of version 2.1 from version 2.0 dated 2016-07-14 are only made to applicable UNFCCC requirements and LoA assessment. Changes of this version 2.2 from version 2.1 dated 2016-08-12 are only made to revise the LoA information. The changes do not impact the project activity content.

SECTION H. Global stakeholder consultation

Means of validation		By means of the draft PoA-DD and specific CPA-DD submitted to the validation team by the CME, the DOE has made the PoA-DD publicly available prior to the start of the validation activities through a dedicated interface on the UNFCCC CDM website in accordance with applicable validation requirements related to the global stakeholder consultation in the VVS. The following sources of information have been used in this context: <ul style="list-style-type: none"> • /POADD/ • /CPADD/ • /unfccc/
Findings	<input checked="" type="checkbox"/>	The PoA-DD and specific CPA-DD were made publicly available through a dedicated interface on the UNFCCC CDM website for global stakeholder consultation.
	<input checked="" type="checkbox"/>	No comments were received during the global stakeholder consultation period.
	<input type="checkbox"/>	Comments were received during the global stakeholder consultation period. The comments (in unedited form) and the consideration/response of the validation team are presented below: -
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: -
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		The DOE has made the draft PoA-DD and specific CPA-DD submitted to the validation team by the project participants publicly available prior to the start of the validation activities on 2015-11-27. No comments were received.

SECTION I. Contribution to sustainable development

Means of validation	<p>By means of the PoA-DD submitted by the CME and interviews with project participant and CME representatives, the validation team has assessed the contribution of the PoA to the sustainable development of the host Country in accordance with applicable related validation requirements in the VVS.</p> <p>As for the Brazilian DNA, a positive validation opinion is a prerequisite for the host government approval and thus the LoA cannot be considered at the present validation stage. The host government approval to the sustainable development will only be confirmed with the LoA issuance which can be requested only with a positive validation opinion.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /LoA/ • /unfccc/ 	
Findings	<input checked="" type="checkbox"/>	The PoA-DD clearly states that the project contributes to sustainable development of the host country and evidences were presented to the validation team to confirm this information.
	<input checked="" type="checkbox"/>	The LoA confirms that the project contributes to sustainable development of the host country.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: -
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	<p>The PoA-DD clearly states how the programme will contribute to the sustainable development of the host country. The contribution can be viewed on:</p> <ul style="list-style-type: none"> - Local environmental sustainability by reducing GHG and air pollutants emissions from the local energy matrix. - Local improvements by the stimulation of the regional economy by increasing tax revenues and job opportunities for local workers and service suppliers; by improving the local infrastructure; by the generation of extra income for the landowners in cases of land leasing; and by creating opportunities for education, professionalization and employment. - Diversification of the electric mix and energetic security by improving grid stability by the diversification of power generation sources - Technological development of the electricity generation sector as this type of project can stimulate similar initiatives in Brazil inducing the development of national technology and know-how. <p>Project activity approval has been obtained from DNA of Brazil, vide the Letter of Approval issued on 2016-10-13. It confirms that the programme contributes to sustainable development of the host country.</p>	

SECTION J. Modalities of communication

Means of validation	<p>By means of comparison of the Modalities of Communication (MoC) submitted by the CME, the validation team has assessed the MoC in accordance with applicable related validation requirements in the VVS.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /MoC/ • /unfccc/ 	
Findings	<input checked="" type="checkbox"/>	A valid Modalities of Communication (MoC) was provided to the validation team from the coordinating/managing entity.
	<input checked="" type="checkbox"/>	The MoC was signed by a duly authorized person on behalf of the coordinating/managing entity.
	<input checked="" type="checkbox"/>	The MoC statement was correctly completed.

	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: -
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		The MoC has been received from the CME (Tractebel Energia S.A.). The representative who submitted the MoC statement to the DOE is duly authorized to do so, on behalf of the CME.

PART II.A Generic component project activity(ies)

METHOD FOR WIND, SOLAR, WAVE AND TIDAL PROJECTS

SECTION A. General description of generic CPA

Means of validation		By means of comparison of the generic CPA in the PoA-DD presented to the validation team by CME and interviews with representatives, the validation team has assessed the description of the proposed generic CPA in accordance with applicable related validation requirements of VVS.
Findings	<input checked="" type="checkbox"/>	The generic CPA contains a clear, accurate and complete description of the CPAs with regard to the technology/measures to be used.
	<input checked="" type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: CL A3: According to paragraph 65 of applied methodology ACM0002 – v. 16.0, it is necessary to describe and justify which CPAs are regarded to be of the same type as per the demonstration of additionality, emission reduction calculations and monitoring.
Conclusion	<input type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input checked="" type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		The generic CPA was described at the PoA-DD in accordance with VVS requirements. The description of the projects is complete and accurate and provides an understanding of the proposed component project activity to be included in the PoA. The activities shall be a greenfield project and shall consist in the implementation of a wind, solar (photovoltaic (PV) and concentrated photovoltaic (CPV)), wave or tidal power plant located within Brazil and connected to the SIN grid. As the demonstration of additionality, emission reduction calculations and monitoring are the same for wind, solar, wave and tidal projects, just one Generic CPA-DD has been presented for all four types of projects, in accordance with paragraph 65 of applied methodology ACM0002 – v. 16.0 and PS 09.0, three Generic CPA-DDs were correctly proposed.

SECTION B. Application of a baseline and monitoring methodology and standardized baseline

B.1. Applicability of selected methodology(ies) and/or standardized baseline

Means of validation	By means of comparison of the generic CPA in the PoA-DD with (i) the applied CDM methodology, (ii) all applicable CDM Meth tools, and (iii) if applicable, a standardized baseline the validation team has checked whether the project activity is in compliance with
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	<p>the related requirements of the applied methodology/tools/SB.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ • /POAS/ • /unfccc/ 	
Findings	<input checked="" type="checkbox"/>	The generic CPA applies a valid version of a CDM Methodology.
	<input checked="" type="checkbox"/>	All applied methodological tools are valid and approved.
	<input checked="" type="checkbox"/>	The applied methodology and methodological tools derived from UNFCCC CDM website.
	<input checked="" type="checkbox"/>	All methodology applicability conditions are met.
	<input checked="" type="checkbox"/>	The generic CPA is in line with all requirements and stipulations mentioned in all sections of the applied methodology.
	<input type="checkbox"/>	The generic CPA is expected to result in significant emissions, related both to project and leakage, other than those listed in the methodology.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:
	-	
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	<p>The generic CPA applies approved methodology <i>ACM0002 – Grid-connected electricity generation from renewable sources – version 16.0</i> which is valid at the moment of the validation process.</p> <p>All applicability conditions of the applied methodology are met (refer to Appendix 6 for details).</p> <p>The component project activity shall also apply the methodological tools “<i>Tool for the demonstration and assessment of additionality</i>” – version 07.0.0 and “<i>Tool to calculate the emission factor for an electricity system</i>” – version 05.0.</p> <p>Methodology and tools are derived from UNFCCC CDM website.</p> <p>Hence, the generic CPA is in line with all requirements and stipulations mentioned in all sections of the applied methodology.</p>	

B.1.1. Deviation from methodology

Means of validation	<p>By means of comparison of the generic CPA in the PoA-DD with the applied CDM methodology and methodological tools, it has been checked whether any deviation from applied methodologies, including standardized baselines have been verified.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ • /unfccc/ 	
Findings	<input checked="" type="checkbox"/>	No deviation from or revision of the methodology is necessary.
	<input type="checkbox"/>	A deviation from or revision of the methodology is to be requested and approved.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:
	-	
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	<p>The generic CPA applies approved methodology <i>ACM0002 – Grid-connected electricity generation from renewable sources – version 16.0</i> which is valid at the moment of the validation process.</p>	

B.1.2. Clarification on applicability of methodology, tool and/or standardized baseline

Means of validation	<p>By means of verification of the proposed generic CPA with</p> <ul style="list-style-type: none"> (i) the applied CDM methodology, (ii) all applicable CDM Meth tools, and (iii) if applicable, a standardized baseline <p>the validation team has checked whether if any clarification on applicability of methodology, tool and/or standardized baseline to the proposed generic CPA has been issued.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ • /unfccc/
Findings	<p><input checked="" type="checkbox"/> No clarification on applicability of methodology, tool and/or standardized baseline to the proposed generic CPA has been issued.</p> <p><input type="checkbox"/> A clarification on applicability of methodology, tool and/or standardized baseline to the proposed generic CPA has been issued.</p> <p><input type="checkbox"/> The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</p> <p>-</p>
Conclusion	<p><input checked="" type="checkbox"/> No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.</p> <p><input type="checkbox"/> The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</p> <p>The generic CPA applies approved methodology <i>ACM0002 – Grid-connected electricity generation from renewable sources – version 16.0</i> which is valid at the moment of the validation process.</p>

B.2. Sources and GHGs

Means of validation	<p>By means of comparison of the generic CPA in the PoA-DD with the applied CDM methodology, the validation team has assessed the baseline scenario in accordance with applicable related validation requirements in the VVS.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/
Findings	<p><input checked="" type="checkbox"/> The generic CPA includes a correct and complete description of the system boundary (GHG gases and GHG sources) which is in accordance with the PoA.</p> <p><input checked="" type="checkbox"/> The generic CPA includes sufficient proofs that the geographical location of the CPA shall be within the boundary definition of the PoA.</p> <p><input checked="" type="checkbox"/> The generic CPA includes a flow diagram physically delineating a CPA.</p> <p><input type="checkbox"/> The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</p> <p>-</p>
Conclusion	<p><input checked="" type="checkbox"/> No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.</p> <p><input type="checkbox"/> The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</p> <p>It is clearly stated at the generic CPA a correct and complete description of the system boundary. In addition, the flow diagram in section B.3 of Part II of PoA-DD clearly shows that the geographical location of the CPA shall be within the boundary definition of the PoA..</p>

B.3. Description of baseline scenario

Means of validation	<p>By means of comparison of the generic CPA in the PoA-DD with the applied CDM methodology, the validation team has assessed the baseline scenario in</p>
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	<p>accordance with applicable related validation requirements in the VVS.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ 	
Findings	<input checked="" type="checkbox"/>	The baseline scenario is given by the applied methodology.
	<input type="checkbox"/>	All possible baseline scenarios have been considered.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:
		-
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	The baseline scenario is the one given by the applied methodology ACM0002 – v. 16.0 for the installation of a Greenfield power plant which is: “ <i>electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the “Tool to calculate the emission factor for an electricity system”.</i> ”	

B.4. Demonstration of eligibility for a generic CPA

No.	Eligibility criteria for the generic CPA	Means for assessment of inclusion of CPA	Means of validation/Findings/Conclusion
a.	All installations in a CPA shall take place within the geographical boundaries of Brazil and shall be connected to the SIN grid.	<p>Project description and geographical coordinates of the CPA as per one of following documents:</p> <ul style="list-style-type: none"> - EIA/RIMA and/or Environmental Licenses; - Other documents, e.g.: engineering studies, etc. 	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with paragraph 18 (a) of PoA Standard. The condition has to be fulfilled as per CDM requirements and Brazilian electric sector framework.</p> <p>In addition, it is verifiable, objective and comprehensive, as the EIA/RIMA and licenses are official and public approved. Other specific documents may also be used.</p>
b.	<p>The CME shall demonstrate that each CPA does not lead to double counting of emission reduction by confirming that each CPA is not part of any of the categories below:</p> <ol style="list-style-type: none"> (1) Standalone CDM project activity; (2) Bundled CDM project activity; (3) Another registered PoA. 	<p>Confirmation of the unique geographical co-ordinates of the CPA according to criterion (a) above.</p> <p>Before including the CPA in the PoA, the CME will conduct a thorough search in the UFCCC registry and other GHG programs (e.g. VCS, etc.) to check that the CPA is not part of a standalone project or bundled project or PoA under any CDM or other GHG programs process</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with paragraph 18 (b) of PoA Standard. The condition has to be fulfilled as per the CDM requirements.</p> <p>In addition, it is verifiable, objective and comprehensive, as GHG programs documents are official and public.</p>

No.	Eligibility criteria for the generic CPA	Means for assessment of inclusion of CPA	Means of validation/Findings/Conclusion
		stage (i.e.: validation, requesting registration or registered).	
c.	<p>The CPA shall consist of a Greenfield grid connected renewable energy power generation project of one of the following types:</p> <ul style="list-style-type: none"> - Solar power plant/unit; - Wind power plant/unit; - Wave power plant/unit; - Tidal power plant/unit. <p>All CPAs will be required to be in conformity with national requirements where available.</p>	<p>Confirmation of the technology/measure (wind, solar, wave or tidal), level and type of service, performance specifications including compliance with testing/certifications as per the following documents:</p> <ul style="list-style-type: none"> - Quotation from technology provider; - Purchase order; - EPC; or - Any other similar documentation assessed or evaluated by a third party. 	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (c) of PoA Standard. The condition has to be fulfilled as per the applied methodology applicability conditions, CDM requirements and Brazilian electric sector framework.</p> <p>In addition, it is verifiable, objective and comprehensive, as any electricity project in Brazil, as wind, solar, wave or tidal, has to be authorized by ANEEL and ONS, which documents are official and public.</p>
d.	<p>The CPA start date shall not be on or before the start date of PoA: 05/05/2014, date which the Prior Consideration of the CDM has been published in the UNFCCC website.</p> <p>The CPA start date should be the earliest date at which either the implementation or construction or real action of a project activity begins in line with "Glossary of CDM terms".</p> <p>Documentary evidence of the CPA start date shall be provided by the time of inclusion of each CPA in the PoA.</p>	<p>Start date confirmation through one of the following documents:</p> <ul style="list-style-type: none"> - Contract between the project developer and a third party related to the implementation or construction of the CPA (EPC, etc.); - Purchase order(s) of equipment /technology or any other significant expenditure; - Any other relevant document, e.g.: order or notice to proceed. 	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 14 (d) of PoA Standard. The condition has to be fulfilled as per PoA requirements to ensure that no CPA starts before the start date of the PoA on 2014-05-05.</p> <p>The presented documents to assess this issue are the ones necessary for the validation of demonstration of the additionality used for the inclusion of the CPA.</p>
e.	<p>The CPA must comply with the following requirements as per the provisions established in the methodology</p>	<p>CPA compliance with ACM0002 (version 16.0) requirements is described in section B.2 above.</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (e) of PoA Standard. The condition has to be fulfilled as per CDM requirements.</p>

No.	Eligibility criteria for the generic CPA	Means for assessment of inclusion of CPA	Means of validation/Findings/Conclusion
	ACM0002 (version 16.0).	<p>Compliance with these requirements is proved by:</p> <ul style="list-style-type: none"> - EIA/RIMA and/or Environmental Licenses; - Other documents, e.g.: engineering studies, etc. 	<p>In addition, it is verifiable, objective and comprehensive, as the EIA/RIMA and licenses are official and public approved. Other specific documents may also be used.</p>
f.	<p>The CPA shall demonstrate additionality as per the stepwise procedure contained in the “Tool for the demonstration and assessment of additionality” (version 7.0.0):</p> <p>Step 0: Demonstration whether the proposed project activity is the first-of-its-kind;</p> <p>Step 1: Identification of alternatives to the project activity;</p> <p>Step 2: Investment analysis;</p> <p>Step 3: Barriers analysis; and</p> <p>Step 4: Common practice analysis</p> <p>Alternatively, the project proponents have also the option to apply the “simplified procedure to demonstrate additionality”, as per the provisions contained in section 5.3.1 of the methodology ACM0002 (version 16.0).</p>	<p>Additionality is demonstrated by conducting an additionality assessment at each CPA-DD according to the “Tool for the demonstration and assessment of additionality” (version 7.0.0) and providing the required documentation to back-up the assessment. i.e., if additionality is demonstrated by an investment analysis, documentation to support the values of input parameters, e.g.: quotations, contracts, purchase orders, spot energy price, etc.</p> <p>Alternatively, as per the provisions contained in section “5.3.1. Simplified procedure to demonstrate additionality” of the methodology ACM0002 (version 16.0), specific technologies mentioned in the positive list can be defined as automatically additional if any of the following conditions is met:</p> <p>(a) The percentage share of total installed capacity of the specific technology in the total installed grid connected</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (f) of PoA Standard. The condition has to be fulfilled as per CDM requirements.</p> <p>It is a verifiable, objective and comprehensive, as the additionality of the project has to be assessed against “Tool for the demonstration and assessment of additionality” and alternatively, as per the provisions contained in section “5.3.1. Simplified procedure to demonstrate additionality” of the methodology ACM0002 (version 16.0).</p> <p>This is also necessary for the validation of the inclusion of the CPA.</p>

No.	Eligibility criteria for the generic CPA	Means for assessment of inclusion of CPA	Means of validation/Findings/Conclusion
		<p>power generation capacity in the host country is equal to or less than two per cent; or</p> <p>(b) The total installed capacity of the technology in the host country is less than or equal to 50 MW.</p> <p>In the case of Brazil, ANEEL publicly available database shall be used for this purpose.</p>	
g.	<p>- Environmental impact analysis shall be conducted at CPA level for all CPAs with installed capacity higher than 10 MW, according to the applicable environmental laws and regulations.</p> <p>- Local stakeholder consultation is conducted at the PoA level and according to the Brazilian DNA requirements to issue the Letter of Approval. The CME does not stipulate any specific requirement for local stakeholder consultations at CPA level.</p>	<p>If applicable, environmental impact analysis evidenced by:</p> <p>- EIA/RIMA and/or Environmental License(s).</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (g) of PoA Standard. The condition has to be fulfilled as per the Brazilian environmental legislation and the CDM requirements.</p> <p>In addition, it is verifiable, objective and comprehensive, as any electricity project in Brazil has to present an EIA or similar environmental study to further require the preliminary, installation or operation license (one at the respective time), which documents are official and public.</p>
h.	<p>The financing for the CPA will be confirmed to be consistent with the PoA financing described in the PoA-DD. A confirmation will be required that no funding is coming from Annex I parties, or if it does, that this is not a diversion of ODA.</p>	<p>Written confirmation that no ODA was diverted at the CPA-DD.</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in order to conform to the requirements of Paragraph 18 (h). The use of financing of official development assistance is not allowed in line with CDM requirements.</p> <p>In addition, it is verifiable, objective and comprehensive, as the DD itself shall contain this information in a formal way.</p>
i.	<p>The CPA shall correspond with the target group:</p>	<p>Confirmation by one of the following documents:</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (i) of</p>

No.	Eligibility criteria for the generic CPA	Means for assessment of inclusion of CPA	Means of validation/Findings/Conclusion
	Greenfield grid-connected (SIN) renewable energy power projects, such as: wind, solar, wave and tidal. The projects are not expected to have any distribution mechanisms.	- EIA/RIMA and/or Environmental License(s); - Other documents, e.g.: engineering studies, etc.	PoA Standard. The condition has to be fulfilled as per the CDM requirements and Brazilian electric sector framework. In addition, it is verifiable, objective and comprehensive, as the EIA/RIMA and licenses of wind, solar, wave or tidal plants are official and public approved. Other specific documents may also be used.

The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:

CL B1: At Section B.5 of Part II:

- the compliance to criterion (b) the avoidance of double counting does not include the verification of the participation in other GHG programs besides the CDM;*
- the eligibility criterion (c) does not set the specification for the technology for each generic CPA type;*
- the compliance to criterion (h), the financing of the CPA is not required to be demonstrated by a formal document.*

The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.

All eligibility criteria established for the CPA inclusion in the PoA have been sufficiently accomplished.

B.5. Estimation of emission reductions or net GHG removals by sinks of the generic CPA

B.5.1. Explanation of methodological choices

Means of validation	By means of comparison of the generic CPA with the PoA-DD and applied CDM methodology, the validation team has assessed the steps taken and the equation and parameters applied to calculate the emission reductions or net GHG removals for the generic CPA were assessed in accordance with the applicable requirements in the VVS and the PoA standard. The following sources of information have been used in this context: <ul style="list-style-type: none"> • /POADD/ • /METH/ 	
Findings	<input checked="" type="checkbox"/>	All formulae to calculate baseline emissions have been applied in line with the underlying methodology and the PoA.
	<input checked="" type="checkbox"/>	All formulae to calculate project emissions have been applied in line with the underlying methodology and the PoA.
	<input checked="" type="checkbox"/>	All formulae to calculate leakage emissions have been applied in line with the underlying methodology and the PoA.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: -
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.

	<p>The generic CPA includes a correct and complete description of the methods or methodological steps as described in the applied methodology to calculate baseline, project and leakage emissions.</p> <p>All the equations to calculate the ERs are in accordance with the applied methodology and PoA.</p> <p>The <u>Baseline Emissions</u> are calculated by the following formula:</p> $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$ <p>Where:</p> <ul style="list-style-type: none"> - BE_y: Baseline emissions in year y; - $EG_{PJ,y}$: Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y; - $EF_{grid,CM,y}$: Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system". <p>As the project activity is the installation of a greenfield power plant: $EG_{PJ,y} = EG_{facility,y}$ (quantity of net electricity generation supplied by the project plant/unit to the grid in year y).</p> <p>The <u>Project Emissions</u> for wind, solar, wave or tidal projects that do not use fossil fuels for electricity generation are zero as per the applied methodology (ACM0002 – v. 16.0). So: $PE_y = 0$.</p> <p>In addition, for the applied methodology, no leakage emissions are to be considered. So: $L_y = 0$.</p>
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B.5.2. Data and parameters fixed ex ante

Means of validation	<p>During the validation all parameters that are not monitored during the crediting period (as listed in chapter B.6.2 of the generic CPA-DD) have been checked in accordance with the requirements of the methodology, tools, underlying PoA, VVS, PoA Standard, and where applicable, the Sampling Standard.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ • /POAS/ • /unfccc/ 								
Findings	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td> <td>The list of parameters which are determined ex-ante is complete.</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>The provided values are correct for all parameters.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</td> </tr> <tr> <td></td> <td>-</td> </tr> </table>	<input checked="" type="checkbox"/>	The list of parameters which are determined ex-ante is complete.	<input checked="" type="checkbox"/>	The provided values are correct for all parameters.	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:		-
<input checked="" type="checkbox"/>	The list of parameters which are determined ex-ante is complete.								
<input checked="" type="checkbox"/>	The provided values are correct for all parameters.								
<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:								
	-								
Conclusion	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td> <td>No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</td> </tr> </table> <p>The list of the ex-ante parameters is complete in accordance with applied methodology, tools and PoA.</p> <p>The only fixed parameter is: $EF_{grid,BM,2014}$: <i>Build margin CO₂ emission factor for the project electricity system in year y.</i></p> <p>For the identified parameter, a separate table has been included in line with the given instructions with value, choice of data, measurement methods and procedures and purpose of data.</p> <p>The applied value is correct and in accordance to the selected data source which is clear and valid from public and official source. The value applied for the parameter is 0.2963 tCO₂/MWh, which is correct as per the Brazilian DNA's website.</p>	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.				
<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.								
<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.								

B.5.3. Ex ante calculation of emission reductions or net GHG removals by sinks

Means of validation	<p>By means of comparison of the generic CPA in the PoA-DD with the applied CDM methodology, methodological tools and presented calculations, the validation team has assessed the estimated emissions reductions of the component project activity in accordance with applicable related validation requirements in the VVS.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /CPADD/ • /POADD/ • /METH/ • /XLS/ 	
Findings	<input checked="" type="checkbox"/>	The equations applied for calculation are correctly applied according to the approved methodology.
	<input checked="" type="checkbox"/>	All values of data to be applied are considered to be reasonable, applicable and conservative.
	<input checked="" type="checkbox"/>	The ER calculation formula as described in B.6.3 is correct.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: -
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
<p>All equations, formulas and conservative assumptions have been applied correctly as per the applied methodology (ACM0002 – 16.0).</p> <p>The methodology does not allow different methodological choices.</p> <p>The baseline emissions are to be calculated based on net energy generated multiplied by the combined margin emission factor (EF) calculated according to the <i>Tool to Calculate the emission factor for an electric system</i> and published by the Brazilian DNA.</p> <p>The fixed parameter is calculated as per the emission factor tool and it will lead to a conservative estimation of emission reductions.</p> <p>The ERs are expected to be real, measurable and give long-term benefits related to the mitigation of climate change.</p> <p>The correct formula has been included.</p>		

B.6. Application of the monitoring methodology and description of the monitoring plan

Means of validation	<p>By means of comparison of the PoA-DD and generic CPA the validation team has assessed whether the CME has chosen to delay the submission of the monitoring plan for the PoA and its generic CPA(s).</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /unfccc/ 	
Findings	<input checked="" type="checkbox"/>	Not applicable as the monitoring plan for the PoA and its generic CPA(s) has been submitted.
	<input type="checkbox"/>	The CME has chosen to delay the submission of the monitoring plan for the PoA and its generic CPA(s).
		-
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
The CME has submitted the monitoring plan for the PoA and its generic CPA(s).		

B.6.1. Data and parameters to be monitored by the generic CPA

Means of validation	<p>During the validation all monitoring parameters (as listed in chapter B.7.1 of the generic CPA) have been checked with regard to the</p> <ul style="list-style-type: none"> (i) description, (ii) source of data, (iii) appropriateness of the applied measurement / determination method, (iv) monitoring frequency, (v) applied QA/QC measures, (vi) purpose of data, (vii) formats. <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/
Findings	<p><input checked="" type="checkbox"/> The list of parameters which are to be monitored is complete.</p> <p><input type="checkbox"/> The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</p> <p>-</p>
Conclusion	<p><input checked="" type="checkbox"/> No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.</p> <p><input type="checkbox"/> The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</p> <p>The list of the parameters is complete and the monitoring is in accordance with applied methodology, tools and PoA.</p> <p>For each identified parameter a separate table has been included in line with the given instructions with value, description, source of data, appropriateness of the applied measurement / determination method and responsible persons, monitoring frequency, applied QA/QC measures, purpose of data and formats.</p> <p>All monitoring parameters required for a wind, solar, wave and tidal power plants by ACM0002 are contained in the monitoring plan:</p> <ul style="list-style-type: none"> - $EF_{grid,OM,y}$: Operation margin emission factor in year y; - $EF_{grid,CM,y}$: Combined margin CO_2 emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system"; - $EG_{facility,y}$ (or $EG_{PJ,y}$): Quantity of net electricity generation supplied by the project plant/unit to the grid in year y. <p>Parameter $EG_{facility,y}$ is monitored by plant meters.</p> <p>$EF_{grid,OM,y}$ given by the Brazilian DNA and parameter $EF_{grid,CM,y}$ is calculated with the value $EF_{grid,OM,y}$ and the value of the ex-ante value of $EF_{grid,BM,y}$. The weightings of $EF_{grid,OM,y}$ and $EF_{grid,BM,y}$ are given by the Tool to calculate the emission factor for an electricity system, which are:</p> <ul style="list-style-type: none"> a) for wind and solar: $w_{OM} = 0.75$ and $w_{BM} = 0.25$ – for all crediting periods; b) for wave and tidal: $w_{OM} = 0.5$ and $w_{BM} = 0.5$ – for the first crediting period and $w_{OM} = 0.25$ and $w_{BM} = 0.75$ – for the second and third crediting periods. <p>The validation procedure is described parameter-wise in the project specific validation checklist (Appendix 5).</p>

B.6.2. Description of the monitoring plan for the generic CPA

Means of validation	<p>During the validation all monitoring parameters (as listed in chapter B.7.1 of the generic CPA) have been checked with regard to the applied methodology and tools and PoA.</p> <p>The monitoring arrangements for the parameters can be implemented, the QA/QC procedures are appropriate and sufficient to ensure that the emission reductions to be achieved from a component project activity can be reported ex-post and further verified. In addition, procedures, type of data and responsibilities are identified and provisions for data archiving are made.</p>
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	The following sources of information have been used in this context:	
	<ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ 	
Findings	<input checked="" type="checkbox"/>	The monitoring plan of the generic CPA is in accordance with the underlying methodology/ies.
	<input checked="" type="checkbox"/>	The means of monitoring of all parameters contained in the monitoring plan are feasible.
	<input type="checkbox"/>	A sampling plan has been provided in line with the standard for sampling and surveys.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:
		-
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	It can be confirmed that the monitoring plan and the means of the monitoring of its parameters is feasible. In addition, the monitoring plan for a CPA is in accordance with the approved monitoring methodology. No sampling plan has been provided.	

PART II.B Generic component project activity(ies)

METHOD FOR SMALL HYDROPOWER PLANT PROJECTS WITH OR WITHOUT RESERVOIR

SECTION A. General description of generic CPA

Means of validation	By means of comparison of the generic CPA in the PoA-DD presented to the validation team by CME and interviews with representatives, the validation team has assessed the description of the proposed generic CPA in accordance with applicable related validation requirements of VVS.	
Findings	<input checked="" type="checkbox"/>	The generic CPA contains a clear, accurate and complete description of the CPAs with regard to the technology/measures to be used.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:
		-
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	The generic CPA was described at the PoA-DD in accordance with VVS requirements. The description of the project is complete and accurate and provides an understanding of the proposed component project activity to be included in the PoA. The activity shall be a greenfield project and shall consist in the implementation of a small hydro power plant with or without reservoir located within Brazil and connected to the SIN grid.	

SECTION B. Application of a baseline and monitoring methodology and standardized baseline

B.1. Applicability of selected methodology(ies) and/or standardized baseline

Means of validation	<p>By means of comparison of the generic CPA in the PoA-DD with</p> <ul style="list-style-type: none"> (i) the applied CDM methodology, (ii) all applicable CDM Meth tools, and (iii) if applicable, a standardized baseline <p>the validation team has checked whether the project activity is in compliance with the related requirements of the applied methodology/tools/SB.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ • /POAS/ • /unfccc/ 																
Findings	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>The generic CPA applies a valid version of a CDM Methodology.</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>All applied methodological tools are valid and approved.</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>The applied methodology and methodological tools derived from UNFCCC CDM website.</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>All methodology applicability conditions are met.</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>The generic CPA is in line with all requirements and stipulations mentioned in all sections of the applied methodology.</td></tr> <tr> <td><input type="checkbox"/></td><td>The generic CPA is expected to result in significant emissions, related both to project and leakage, other than those listed in the methodology.</td></tr> <tr> <td><input type="checkbox"/></td><td>The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</td></tr> <tr> <td></td><td>-</td></tr> </table>	<input checked="" type="checkbox"/>	The generic CPA applies a valid version of a CDM Methodology.	<input checked="" type="checkbox"/>	All applied methodological tools are valid and approved.	<input checked="" type="checkbox"/>	The applied methodology and methodological tools derived from UNFCCC CDM website.	<input checked="" type="checkbox"/>	All methodology applicability conditions are met.	<input checked="" type="checkbox"/>	The generic CPA is in line with all requirements and stipulations mentioned in all sections of the applied methodology.	<input type="checkbox"/>	The generic CPA is expected to result in significant emissions, related both to project and leakage, other than those listed in the methodology.	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:		-
<input checked="" type="checkbox"/>	The generic CPA applies a valid version of a CDM Methodology.																
<input checked="" type="checkbox"/>	All applied methodological tools are valid and approved.																
<input checked="" type="checkbox"/>	The applied methodology and methodological tools derived from UNFCCC CDM website.																
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	-																
Conclusion	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.</td></tr> <tr> <td><input type="checkbox"/></td><td>The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</td></tr> </table> <p>The generic CPA applies approved methodology <i>ACM0002 – Grid-connected electricity generation from renewable sources – version 16.0</i> which is valid at the moment of the validation process.</p> <p>All applicability conditions of the applied methodology are met (refer to Appendix 6 for details).</p> <p>The component project activity shall also apply the methodological tools “<i>Tool for the demonstration and assessment of additionality</i>” – version 07.0.0 and “<i>Tool to calculate the emission factor for an electricity system</i>” – version 05.0.</p> <p>Methodology and tools are derived from UNFCCC CDM website.</p> <p>Hence, the generic CPA is in line with all requirements and stipulations mentioned in all sections of the applied methodology.</p>	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.												
<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.																
<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.																

B.1.1. Deviation from methodology

Means of validation	<p>By means of comparison of the generic CPA in the PoA-DD with the applied CDM methodology and methodological tools, it has been checked whether any deviation from applied methodologies, including standardized baselines have been verified.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ • /unfccc/ 								
Findings	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>No deviation from or revision of the methodology is necessary.</td></tr> <tr> <td><input type="checkbox"/></td><td>A deviation from or revision of the methodology is to be requested and approved.</td></tr> <tr> <td><input type="checkbox"/></td><td>The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</td></tr> <tr> <td></td><td>-</td></tr> </table>	<input checked="" type="checkbox"/>	No deviation from or revision of the methodology is necessary.	<input type="checkbox"/>	A deviation from or revision of the methodology is to be requested and approved.	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:		-
<input checked="" type="checkbox"/>	No deviation from or revision of the methodology is necessary.								
<input type="checkbox"/>	A deviation from or revision of the methodology is to be requested and approved.								
<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:								
	-								
Conclusion	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.</td></tr> <tr> <td><input type="checkbox"/></td><td>The raised CARs/CLs have been addressed appropriately. The PP has carried</td></tr> </table>	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried				
<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.								
<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried								

		out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		The generic CPA applies approved methodology <i>ACM0002 – Grid-connected electricity generation from renewable sources – version 16.0</i> which is valid at the moment of the validation process.

B.1.2. Clarification on applicability of methodology, tool and/or standardized baseline

Means of validation		By means of verification of the proposed generic CPA with (i) the applied CDM methodology, (ii) all applicable CDM Meth tools, and (iii) if applicable, a standardized baseline the validation team has checked whether if any clarification on applicability of methodology, tool and/or standardized baseline to the proposed generic CPA has been issued. The following sources of information have been used in this context: <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ • /unfccc/
Findings	<input checked="" type="checkbox"/>	No clarification on applicability of methodology, tool and/or standardized baseline to the proposed generic CPA has been issued.
	<input type="checkbox"/>	A clarification on applicability of methodology, tool and/or standardized baseline to the proposed generic CPA has been issued.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:
		-
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		The generic CPA applies approved methodology <i>ACM0002 – Grid-connected electricity generation from renewable sources – version 16.0</i> which is valid at the moment of the validation process.

B.2. Sources and GHGs

Means of validation		By means of comparison of the generic CPA in the PoA-DD with the applied CDM methodology, the validation team has assessed the baseline scenario in accordance with applicable related validation requirements in the VVS. The following sources of information have been used in this context: <ul style="list-style-type: none"> • /POADD/ • /METH/
Findings	<input checked="" type="checkbox"/>	The generic CPA includes a correct and complete description of the system boundary (GHG gases and GHG sources) which is in accordance with the PoA.
	<input checked="" type="checkbox"/>	The generic CPA includes sufficient proofs that the geographical location of the CPA shall be within the boundary definition of the PoA.
	<input checked="" type="checkbox"/>	The generic CPA includes a flow diagram physically delineating a CPA.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:
		-
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.

	It is clearly stated at the generic CPA a correct and complete description of the system boundary. In addition, the flow diagram in section B.3 of Part II of PoA-DD clearly shows that the geographical location of the CPA shall be within the boundary definition of the PoA.
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B.3. Description of baseline scenario

Means of validation	By means of comparison of the generic CPA in the PoA-DD with the applied CDM methodology, the validation team has assessed the baseline scenario in accordance with applicable related validation requirements in the VVS. The following sources of information have been used in this context: <ul style="list-style-type: none"> • /POADD/ • /METH/
Findings	<input checked="" type="checkbox"/> The baseline scenario is given by the applied methodology. <input type="checkbox"/> All possible baseline scenarios have been considered. <input type="checkbox"/> The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: -
Conclusion	<input checked="" type="checkbox"/> No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements. <input type="checkbox"/> The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4. The baseline scenario is the one given by the applied methodology ACM0002 – v. 16.0 for the installation of a Greenfield power plant which is: “ <i>electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the “Tool to calculate the emission factor for an electricity system”.</i> ”

B.4. Demonstration of eligibility for a generic CPA

No.	Eligibility criteria for the generic CPA	Means for assessment of inclusion of CPA	Means of validation/Findings/Conclusion
a.	All installations in a CPA shall take place within the geographical boundaries of Brazil and shall be connected to the SIN grid.	Project description and geographical coordinates of the CPA as per one of following documents: <ul style="list-style-type: none"> - EIA/RIMA and/or Environmental Licenses; - Other documents, e.g.: engineering studies, etc. 	The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with paragraph 18 (a) of PoA Standard. The condition has to be fulfilled as per CDM requirements and Brazilian electric sector framework. In addition, it is verifiable, objective and comprehensive, as the EIA/RIMA and licenses are official and public approved. Other specific documents may also be used.
b.	The CME shall demonstrate that each CPA does not lead to double counting of emission reduction by confirming that each CPA is not part of any of the categories below: (1) Standalone CDM project activity;	Confirmation of the unique geographical co-ordinates of the CPA according to criterion (a) above. Before including the CPA in the PoA, the CME will conduct a thorough search in the UFCCC registry and	The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with paragraph 18 (b) of PoA Standard. The condition has to be fulfilled as per the CDM requirements. In addition, it is verifiable, objective and comprehensive, as GHG programs documents are official and public.

No.	Eligibility criteria for the generic CPA	Means for assessment of inclusion of CPA	Means of validation/Findings/Conclusion
	<p>(2) Bundled CDM project activity;</p> <p>(3) Another registered PoA.</p>	<p>other GHG programs (e.g. VCS, etc.) to check that the CPA is not part of a standalone project or bundled project or PoA under any CDM or other GHG programs process stage (i.e.: validation, requesting registration or registered).</p>	
c.	<p>The CPA shall consist of a Greenfield grid connected renewable energy power generation project of one of the following types:</p> <ul style="list-style-type: none"> - Small hydro power plant/unit with or without reservoir (currently defined by ANEEL as between 1 MW and 30 MW). <p>All CPAs will be required to be in conformity with national requirements where available.</p>	<p>Confirmation of the technology/measure (hydro power plant with or without reservoir), level and type of service, performance specifications including compliance with testing/certifications as per the following documents:</p> <ul style="list-style-type: none"> - Quotation from technology provider; - Purchase order; - EPC; or - Any other similar documentation assessed or evaluated by a third party. 	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (c) of PoA Standard. The condition has to be fulfilled as per the applied methodology applicability conditions, CDM requirements and Brazilian electric sector framework.</p> <p>In addition, it is verifiable, objective and comprehensive, as any electricity project in Brazil, as a hydro power plant with or without reservoir, has to be authorized by ANEEL and ONS, which documents are official and public.</p>
d.	<p>The CPA start date shall not be on or before the start date of PoA: 05/05/2014, date which the Prior Consideration of the CDM has been published in the UNFCCC website.</p> <p>The CPA start date should be the earliest date at which either the implementation or construction or real action of a project activity begins in line with "Glossary of CDM terms".</p> <p>Documentary evidence of the CPA start date</p>	<p>Start date confirmation through one of the following documents:</p> <ul style="list-style-type: none"> - Contract between the project developer and a third party related to the implementation or construction of the CPA (EPC, etc.); - Purchase order(s) of equipment /technology or any other significant expenditure; - Any other relevant document, e.g.: order or notice to proceed. 	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 14 (d) of PoA Standard. The condition has to be fulfilled as per PoA requirements to ensure that no CPA starts before the start date of the PoA on 2014-05-05.</p> <p>The presented documents to assess this issue are the ones necessary for the validation of demonstration of the additionality used for the inclusion of the CPA.</p>

No.	Eligibility criteria for the generic CPA	Means for assessment of inclusion of CPA	Means of validation/Findings/Conclusion
	shall be provided by the time of inclusion of each CPA in the PoA.		
e.	The CPA must comply with the following requirements as per the provisions established in the methodology ACM0002 (version 16.0).	<p>CPA compliance with ACM0002 (version 16.0) requirements is described in section B.2 above.</p> <p>Compliance with these requirements is proved by:</p> <ul style="list-style-type: none"> - EIA/RIMA and/or Environmental Licenses; - Other documents, e.g.: engineering studies, etc. 	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (e) of PoA Standard. The condition has to be fulfilled as per CDM requirements.</p> <p>In addition, it is verifiable, objective and comprehensive, as the EIA/RIMA and licenses are official and public approved. Other specific documents may also be used.</p>
f.	<p>The CPA shall demonstrate additionality as per the stepwise procedure contained in the “Tool for the demonstration and assessment of additionality” (version 7.0.0):</p> <p>Step 0: Demonstration whether the proposed project activity is the first-of-its-kind;</p> <p>Step 1: Identification of alternatives to the project activity;</p> <p>Step 2: Investment analysis;</p> <p>Step 3: Barriers analysis; and</p> <p>Step 4: Common practice analysis</p> <p>Alternatively, the project proponents have also the option to apply the “simplified procedure to demonstrate additionality”, as per the provisions contained in section 5.3.1 of the methodology ACM0002</p>	<p>Additionality is demonstrated by conducting an additionality assessment at each CPA-DD according to the “Tool for the demonstration and assessment of additionality” (version 7.0.0) and providing the required documentation to back-up the assessment. i.e., if additionality is demonstrated by an investment analysis, documentation to support the values of input parameters, e.g.: quotations, contracts, purchase orders, spot energy price, etc.</p> <p>Alternatively, as per the provisions contained in section “5.3.1. Simplified procedure to demonstrate additionality” of the methodology ACM0002 (version 16.0), specific technologies mentioned in the positive list can be defined as</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (f) of PoA Standard. The condition has to be fulfilled as per CDM requirements.</p> <p>It is a verifiable, objective and comprehensive, as the additionality of the project has to be assessed against “Tool for the demonstration and assessment of additionality” and alternatively, as per the provisions contained in section “5.3.1. Simplified procedure to demonstrate additionality” of the methodology ACM0002 (version 16.0).</p> <p>This is also necessary for the validation of the inclusion of the CPA.</p>

No.	Eligibility criteria for the generic CPA	Means for assessment of inclusion of CPA	Means of validation/Findings/Conclusion
	(version 16.0).	<p>automatically additional if any of the following conditions is met:</p> <p>(a) The percentage share of total installed capacity of the specific technology in the total installed grid connected power generation capacity in the host country is equal to or less than two per cent; or</p> <p>(b) The total installed capacity of the technology in the host country is less than or equal to 50 MW.</p> <p>In the case of Brazil, ANEEL publicly available database shall be used for this purpose.</p>	
g.	<p>- Environmental impact analysis shall be conducted at CPA level for all CPAs with installed capacity higher than 10 MW, according to the applicable environmental laws and regulations.</p> <p>- Local stakeholder consultation is conducted at the PoA level and according to the Brazilian DNA requirements to issue the Letter of Approval. The CME does not stipulate any specific requirement for local stakeholder consultations at CPA level.</p>	<p>If applicable, environmental impact analysis evidenced by:</p> <p>- EIA/RIMA and/or Environmental License(s).</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (g) of PoA Standard. The condition has to be fulfilled as per the Brazilian environmental legislation and the CDM requirements.</p> <p>In addition, it is verifiable, objective and comprehensive, as any electricity project in Brazil has to present an EIA or similar environmental study to further require the preliminary, installation or operation license (one at the respective time), which documents are official and public.</p>
h.	The financing for the CPA will be confirmed to be consistent with the PoA financing described in the PoA-DD. A confirmation will be	Written confirmation that no ODA was diverted at the CPA-DD.	The PoA-DD sets the eligibility criterion for inclusion of the CPAs in order to conform to the requirements of Paragraph 18 (h). The use of financing of official development assistance is not allowed in line with

No.	Eligibility criteria for the generic CPA	Means for assessment of inclusion of CPA	Means of validation/Findings/Conclusion
	required that no funding is coming from Annex I parties, or if it does, that this is not a diversion of ODA.		CDM requirements. In addition, it is verifiable, objective and comprehensive, as the DD itself shall contain this information in a formal way.
i.	The CPA shall correspond with the target group: Greenfield grid-connected (SIN) renewable energy power projects, such as hydro with or without reservoir. The projects are not expected to have any distribution mechanisms.	Confirmation by one of the following documents: - EIA/RIMA and/or Environmental License(s); - Other documents, e.g.: engineering studies, etc.	The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (i) of PoA Standard. The condition has to be fulfilled as per the CDM requirements and Brazilian electric sector framework. In addition, it is verifiable, objective and comprehensive, as the EIA/RIMA and licenses of a hydro power plant with or without reservoir are official and public approved. Other specific documents may also be used.

The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:

CL B1: At Section B.5 of Part II:

- the compliance to criterion (b) the avoidance of double counting does not include the verification of the participation in other GHG programs besides the CDM;*
- the eligibility criterion (c) does not set the criteria for the technology for each generic CPA type;*
- the compliance to criterion (h), the financing of the CPA is not required to be demonstrated by a formal document.*

The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.

All eligibility criteria established for the CPA inclusion in the PoA have been sufficiently accomplished.

B.5. Estimation of emission reductions or net GHG removals by sinks of the generic CPA

B.5.1. Explanation of methodological choices

Means of validation	By means of comparison of the generic CPA with the PoA-DD and applied CDM methodology, the validation team has assessed the steps taken and the equation and parameters applied to calculate the emission reductions or net GHG removals for the generic CPA were assessed in accordance with the applicable requirements in the VVS and the PoA standard. The following sources of information have been used in this context: <ul style="list-style-type: none"> • /POADD/ • /METH/ 		
Findings	<input checked="" type="checkbox"/>	All formulae to calculate baseline emissions have been applied in line with the underlying methodology and the PoA.	
	<input checked="" type="checkbox"/>	All formulae to calculate project emissions have been applied in line with the underlying methodology and the PoA.	
	<input checked="" type="checkbox"/>	All formulae to calculate leakage emissions have been applied in line with the underlying methodology and the PoA.	
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:	

		-
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	<p>The generic CPA includes a correct and complete description of the methods or methodological steps as described in the applied methodology to calculate baseline, project and leakage emissions.</p> <p>All the equations to calculate the ERs are in accordance with the applied methodology and PoA.</p> <p>The <u>Baseline Emissions</u> are calculated by the following formula:</p> $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$ <p>Where:</p> <ul style="list-style-type: none"> - BE_y: Baseline emissions in year y; - $EG_{PJ,y}$: Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y; - $EF_{grid,CM,y}$: Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system". <p>As the project activity is the installation of a greenfield power plant: $EG_{PJ,y} = EG_{facility,y}$ (quantity of net electricity generation supplied by the project plant/unit to the grid in year y).</p> <p>The <u>Project Emissions</u> for hydro projects are to be considered in case of power project activities with a power density greater than 4 W/m² and less than or equal to 10 W/m² as per the applied methodology (ACM0002 – v. 16.0). Otherwise, $PE_y = 0$. When considered, PE are calculated as follows:</p> $PE_{HP,y} = (EF_{Res} \times TEG_y) / 1000$ <p>Where:</p> <ul style="list-style-type: none"> - $PE_{HP,y}$: Project emissions from water reservoirs; - EF_{Res}: Default emission factor for emissions from reservoirs; - TEG_y: Total electricity produced by the project activity, including the electricity supplied to the grid and the electricity supplied to internal loads, in year y. <p>In addition, for the applied methodology, no leakage emissions are to be considered. So: $L_y = 0$.</p>	

B.5.2. Data and parameters fixed ex ante

Means of validation	<p>During the validation all parameters that are not monitored during the crediting period (as listed in chapter B.6.2 of the generic CPA-DD) have been checked in accordance with the requirements of the methodology, tools, underlying PoA, VVS, PoA Standard, and where applicable, the Sampling Standard.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ • /POAS/ • /unfccc/ 	
Findings	<input checked="" type="checkbox"/>	The list of parameters which are determined ex-ante is complete.
	<input checked="" type="checkbox"/>	The provided values are correct for all parameters.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:
		-
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried

		out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		<p>The list of the ex-ante parameters is complete in accordance with applied methodology, tools and PoA.</p> <p>The fixed parameters are:</p> <ul style="list-style-type: none"> - $EF_{grid,BM,2014}$: Build margin CO₂ emission factor for the project electricity system in year y; - EF_{Res}: Default emission factor for emissions from reservoirs; - Cap_{BL}: Installed capacity of the hydro power plant before the implementation of the project activity; - A_{BL}: Area of a single or multiple reservoirs measured in the surface of the water before the implementation of the project activity, when the reservoir is full. <p>For each identified parameter, a separate table has been included in line with the given instructions with value, choice of data, measurement methods and procedures and purpose of data.</p> <p>The applied value for the $EF_{grid,BM,2014}$ is correct and in accordance to the selected data source which is clear and valid from public and official source. The value applied for the parameter is 0.2963 tCO₂/MWh, which is correct as per the Brazilian DNA's website.</p> <p>The applied value for the EF_{Res} is 90 kgCO₂e/MWh, which is a default value in accordance with EB 23.</p> <p>The other values will be project specific.</p>

B.5.3. Ex ante calculation of emission reductions or net GHG removals by sinks

Means of validation		<p>By means of comparison of the generic CPA in the PoA-DD with the applied CDM methodology, methodological tools and presented calculations, the validation team has assessed the estimated emissions reductions of the component project activity in accordance with applicable related validation requirements in the VVS.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /CPADD/ • /POADD/ • /METH/ • /XLS/
Findings	<input checked="" type="checkbox"/>	The equations applied for calculation are correctly applied according to the approved methodology.
	<input checked="" type="checkbox"/>	All values of data to be applied are considered to be reasonable, applicable and conservative.
	<input checked="" type="checkbox"/>	The ER calculation formula as described in B.6.3 is correct.
	<input type="checkbox"/>	<p>The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</p> <p>-</p>
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	<p>The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</p> <p>All equations, formulas and conservative assumptions have been applied correctly as per the applied methodology (ACM0002 – 16.0).</p> <p>The methodology does not allow different methodological choices.</p> <p>The baseline emissions are to be calculated based on net energy generated multiplied by the combined margin emission factor (EF) calculated according to the <i>Tool to Calculate the emission factor for an electric system</i> and published by the Brazilian DNA.</p> <p>The fixed parameter is calculated as per the emission factor tool and it will lead to a conservative estimation of emission reductions.</p> <p>The ERs are expected to be real, measurable and give long-term benefits related to the mitigation of climate change.</p> <p>The correct formula has been included.</p>

B.6. Application of the monitoring methodology and description of the monitoring plan

Means of validation	By means of comparison of the PoA-DD and generic CPA the validation team has assessed whether the CME has chosen to delay the submission of the monitoring plan for the PoA and its generic CPA(s). The following sources of information have been used in this context: <ul style="list-style-type: none"> • /POADD/ • /METH/ • /unfccc/
Findings	<input checked="" type="checkbox"/> Not applicable as the monitoring plan for the PoA and its generic CPA(s) has been submitted. <input type="checkbox"/> The CME has chosen to delay the submission of the monitoring plan for the PoA and its generic CPA(s). <input type="checkbox"/> -
Conclusion	<input checked="" type="checkbox"/> No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements. <input type="checkbox"/> The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4. The CME has submitted the monitoring plan for the PoA and its generic CPA(s).

B.6.1. Data and parameters to be monitored by the generic CPA

Means of validation	During the validation all monitoring parameters (as listed in chapter B.7.1 of the generic CPA) have been checked with regard to the <ul style="list-style-type: none"> (i) description, (ii) source of data, (iii) appropriateness of the applied measurement / determination method, (iv) monitoring frequency, (v) applied QA/QC measures, (vi) purpose of data, (vii) formats. The following sources of information have been used in this context: <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/
Findings	<input checked="" type="checkbox"/> The list of parameters which are to be monitored is complete. <input checked="" type="checkbox"/> The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: CAR B2: <i>At Section B.7.1, it is missing the monitored parameter TEG_y for the case of hydro power project activities with a power density greater than 4 W/m² and less than or equal to 10 W/m² as per applied methodology ACM0002.</i>
Conclusion	<input type="checkbox"/> No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements. <input checked="" type="checkbox"/> The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4. The list of the parameters is complete and the monitoring is in accordance with applied methodology, tools and PoA. For each identified parameter a separate table has been included in line with the given instructions with value, description, source of data, appropriateness of the applied measurement / determination method and responsible persons, monitoring frequency, applied QA/QC measures, purpose of data and formats. All monitoring parameters required for a hydro power plant by ACM0002 are contained in the monitoring plan: <ul style="list-style-type: none"> - $EF_{grid,OM,y}$: Operation margin emission factor in year y; - $EF_{grid,CM,y}$: Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system"; - $EG_{facility,v}$ (or $EG_{PJ,v}$): Quantity of net electricity generation supplied by the

	<p>project plant/unit to the grid in year y;</p> <ul style="list-style-type: none"> - Cap_{PJ}: Installed capacity of the hydro power plant after the implementation of the project activity; - A_{PJ}: Area of a single or multiple reservoirs measured in the surface of the water after the implementation of the project activity, when the reservoir is full; - TEG_y: Total electricity produced by the project activity, including the electricity supplied to the grid and the electricity supplied to internal loads, in year y. <p>Parameters $EG_{facility,y}$ and TEG_y (when applicable) are monitored by plant meters. Cap_{PJ} and A_{BL} are monitored once at the beginning of each crediting period. $EF_{grid,OM,y}$ given by the Brazilian DNA and parameter $EF_{grid,CM,y}$ is calculated with the value $EF_{grid,OM,y}$ and the value of the ex-ante value of $EF_{grid,BM,y}$. The weightings of $EF_{grid,OM,y}$ and $EF_{grid,BM,y}$ are given by the <i>Tool to calculate the emission factor for an electricity system</i> for hydro, which are: $w_{OM} = 0.5$ and $w_{BM} = 0.5$ – for the first crediting period and $w_{OM} = 0.25$ and $w_{BM} = 0.75$ – for the second and third crediting periods.</p> <p>The validation procedure is described parameter-wise in the project specific validation checklist (Appendix 5).</p>
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B.6.2. Description of the monitoring plan for the generic CPA

Means of validation	<p>During the validation all monitoring parameters (as listed in chapter B.7.1 of the generic CPA) have been checked with regard to the applied methodology and tools and PoA.</p> <p>The monitoring arrangements for the parameters can be implemented, the QA/QC procedures are appropriate and sufficient to ensure that the emission reductions to be achieved from a component project activity can be reported ex-post and further verified. In addition, procedures, type of data and responsibilities are identified and provisions for data archiving are made.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ 										
Findings	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>The monitoring plan of the generic CPA is in accordance with the underlying methodology/ies.</td></tr> <tr> <td><input checked="" type="checkbox"/></td><td>The means of monitoring of all parameters contained in the monitoring plan are feasible.</td></tr> <tr> <td><input type="checkbox"/></td><td>A sampling plan has been provided in line with the standard for sampling and surveys.</td></tr> <tr> <td><input type="checkbox"/></td><td>The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</td></tr> <tr> <td></td><td>-</td></tr> </table>	<input checked="" type="checkbox"/>	The monitoring plan of the generic CPA is in accordance with the underlying methodology/ies.	<input checked="" type="checkbox"/>	The means of monitoring of all parameters contained in the monitoring plan are feasible.	<input type="checkbox"/>	A sampling plan has been provided in line with the standard for sampling and surveys.	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:		-
<input checked="" type="checkbox"/>	The monitoring plan of the generic CPA is in accordance with the underlying methodology/ies.										
<input checked="" type="checkbox"/>	The means of monitoring of all parameters contained in the monitoring plan are feasible.										
<input type="checkbox"/>	A sampling plan has been provided in line with the standard for sampling and surveys.										
<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:										
	-										
Conclusion	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td><td>No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.</td></tr> <tr> <td><input type="checkbox"/></td><td>The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</td></tr> </table> <p>It can be confirmed that the monitoring plan and the means of the monitoring of its parameters is feasible. In addition, the monitoring plan for a CPA is in accordance with the approved monitoring methodology.</p> <p>No sampling plan has been provided.</p>	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.						
<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.										
<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.										

PART II.C Generic component project activity(ies)**METHOD FOR GEOTHERMAL PROJECTS****SECTION A. General description of generic CPA**

Means of validation	By means of comparison of the generic CPA in the PoA-DD presented to the validation team by CME and interviews with representatives, the validation team has assessed the description of the proposed generic CPA in accordance with applicable related validation requirements of VVS.	
Findings	<input checked="" type="checkbox"/>	The generic CPA contains a clear, accurate and complete description of the CPAs with regard to the technology/measures to be used.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: -
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	The generic CPA was described at the PoA-DD in accordance with VVS requirements. The description of the project is complete and accurate and provides an understanding of the proposed component project activity to be included in the PoA. The activity shall be a greenfield project and shall consist in the implementation of a geothermal power plant located within Brazil and connected to the SIN grid.	

SECTION B. Application of a baseline and monitoring methodology and standardized baseline**B.1. Applicability of selected methodology(ies) and/or standardized baseline**

Means of validation	By means of comparison of the generic CPA in the PoA-DD with (i) the applied CDM methodology, (ii) all applicable CDM Meth tools, and (iii) if applicable, a standardized baseline the validation team has checked whether the project activity is in compliance with the related requirements of the applied methodology/tools/SB. The following sources of information have been used in this context: <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ • /POAS/ • /unfccc/ 	
Findings	<input checked="" type="checkbox"/>	The generic CPA applies a valid version of a CDM Methodology.
	<input checked="" type="checkbox"/>	All applied methodological tools are valid and approved.
	<input checked="" type="checkbox"/>	The applied methodology and methodological tools derived from UNFCCC CDM website.
	<input checked="" type="checkbox"/>	All methodology applicability conditions are met.
	<input checked="" type="checkbox"/>	The generic CPA is in line with all requirements and stipulations mentioned in all sections of the applied methodology.
	<input type="checkbox"/>	The generic CPA is expected to result in significant emissions, related both to project and leakage, other than those listed in the methodology.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: -
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.

	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		<p>The generic CPA applies approved methodology <i>ACM0002 – Grid-connected electricity generation from renewable sources – version 16.0</i> which is valid at the moment of the validation process.</p> <p>All applicability conditions of the applied methodology are met (refer to Appendix 6 for details).</p> <p>The component project activity shall also apply the methodological tools “<i>Tool for the demonstration and assessment of additionality</i>” – version 07.0.0 and “<i>Tool to calculate the emission factor for an electricity system</i>” – version 05.0.</p> <p>Methodology and tools are derived from UNFCCC CDM website.</p> <p>Hence, the generic CPA is in line with all requirements and stipulations mentioned in all sections of the applied methodology.</p>

B.1.1. Deviation from methodology

Means of validation		<p>By means of comparison of the generic CPA in the PoA-DD with the applied CDM methodology and methodological tools, it has been checked whether any deviation from applied methodologies, including standardized baselines have been verified.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ • /unfccc/
Findings	<input checked="" type="checkbox"/>	No deviation from or revision of the methodology is necessary.
	<input type="checkbox"/>	A deviation from or revision of the methodology is to be requested and approved.
	<input type="checkbox"/>	<p>The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</p> <p>-</p>
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		The generic CPA applies approved methodology <i>ACM0002 – Grid-connected electricity generation from renewable sources – version 16.0</i> which is valid at the moment of the validation process.

B.1.2. Clarification on applicability of methodology, tool and/or standardized baseline

Means of validation		<p>By means of verification of the proposed generic CPA with</p> <ul style="list-style-type: none"> (i) the applied CDM methodology, (ii) all applicable CDM Meth tools, and (iii) if applicable, a standardized baseline <p>the validation team has checked whether if any clarification on applicability of methodology, tool and/or standardized baseline to the proposed generic CPA has been issued.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ • /unfccc/
Findings	<input checked="" type="checkbox"/>	No clarification on applicability of methodology, tool and/or standardized baseline to the proposed generic CPA has been issued.
	<input type="checkbox"/>	A clarification on applicability of methodology, tool and/or standardized baseline to the proposed generic CPA has been issued.
	<input type="checkbox"/>	<p>The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</p> <p>-</p>

Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		The generic CPA applies approved methodology <i>ACM0002 – Grid-connected electricity generation from renewable sources – version 16.0</i> which is valid at the moment of the validation process.

B.2. Sources and GHGs

Means of validation		By means of comparison of the generic CPA in the PoA-DD with the applied CDM methodology, the validation team has assessed the baseline scenario in accordance with applicable related validation requirements in the VVS. The following sources of information have been used in this context: <ul style="list-style-type: none"> • /POADD/ • /METH/
Findings	<input checked="" type="checkbox"/>	The generic CPA includes a correct and complete description of the system boundary (GHG gases and GHG sources) which is in accordance with the PoA.
	<input checked="" type="checkbox"/>	The generic CPA includes sufficient proofs that the geographical location of the CPA shall be within the boundary definition of the PoA.
	<input checked="" type="checkbox"/>	The generic CPA includes a flow diagram physically delineating a CPA.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: <p>-</p>
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		It is clearly stated at the generic CPA a correct and complete description of the system boundary. In addition, the flow diagram in section B.3 of Part II of PoA-DD clearly shows that the geographical location of the CPA shall be within the boundary definition of the PoA.

B.3. Description of baseline scenario

Means of validation		By means of comparison of the generic CPA in the PoA-DD with the applied CDM methodology, the validation team has assessed the baseline scenario in accordance with applicable related validation requirements in the VVS. The following sources of information have been used in this context: <ul style="list-style-type: none"> • /POADD/ • /METH/
Findings	<input checked="" type="checkbox"/>	The baseline scenario is given by the applied methodology.
	<input type="checkbox"/>	All possible baseline scenarios have been considered.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: <p>-</p>
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		The baseline scenario is the one given by the applied methodology ACM0002 – v. 16.0 for the installation of a Greenfield power plant which is: “ <i>electricity delivered to the grid by the project activity would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources, as reflected in the combined margin (CM) calculations described in the “Tool to calculate the emission factor for an electricity system”.</i> ”

B.4. Demonstration of eligibility for a generic CPA

No.	Eligibility criteria for the generic CPA	Means for assessment of inclusion of CPA	Means of validation/Findings/Conclusion
a.	All installations in a CPA shall take place within the geographical boundaries of Brazil and shall be connected to the SIN grid.	<p>Project description and geographical coordinates of the CPA as per one of following documents:</p> <ul style="list-style-type: none"> - EIA/RIMA and/or Environmental Licenses; - Other documents, e.g.: engineering studies, etc. 	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with paragraph 18 (a) of PoA Standard. The condition has to be fulfilled as per CDM requirements and Brazilian electric sector framework.</p> <p>In addition, it is verifiable, objective and comprehensive, as the EIA/RIMA and licenses are official and public approved. Other specific documents may also be used.</p>
b.	<p>The CME shall demonstrate that each CPA does not lead to double counting of emission reduction by confirming that each CPA is not part of any of the categories below:</p> <ol style="list-style-type: none"> (1) Standalone CDM project activity; (2) Bundled CDM project activity; (3) Another registered PoA. 	<p>Confirmation of the unique geographical co-ordinates of the CPA according to criterion (a) above.</p> <p>Before including the CPA in the PoA, the CME will conduct a thorough search in the UFCCC registry and other GHG programs (e.g. VCS, etc.) to check that the CPA is not part of a standalone project or bundled project or PoA under any CDM or other GHG programs process stage (i.e.: validation, requesting registration or registered).</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with paragraph 18 (b) of PoA Standard. The condition has to be fulfilled as per the CDM requirements.</p> <p>In addition, it is verifiable, objective and comprehensive, as GHG programs documents are official and public.</p>
c.	<p>The CPA shall consist of a Greenfield grid connected renewable energy power generation project of one of the following type:</p> <ul style="list-style-type: none"> - Geothermal power plant/unit. <p>All CPAs will be required to be in conformity with national requirements where available.</p>	<p>Confirmation of the technology/measure (geothermal), level and type of service, performance specifications including compliance with testing/certifications as per the following documents:</p> <ul style="list-style-type: none"> - Quotation from technology provider; - Purchase order; - EPC; or - Any other similar 	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (c) of PoA Standard. The condition has to be fulfilled as per the applied methodology applicability conditions, CDM requirements and Brazilian electric sector framework.</p> <p>In addition, it is verifiable, objective and comprehensive, as any electricity project in Brazil, as a geothermal plant, has to be authorized by ANEEL and ONS, which documents are official and public.</p>

No.	Eligibility criteria for the generic CPA	Means for assessment of inclusion of CPA	Means of validation/Findings/Conclusion
		documentation assessed or evaluated by a third party.	
d.	<p>The CPA start date shall not be on or before the start date of PoA: 05/05/2014, date which the Prior Consideration of the CDM has been published in the UNFCCC website.</p> <p>The CPA start date should be the earliest date at which either the implementation or construction or real action of a project activity begins in line with "Glossary of CDM terms".</p> <p>Documentary evidence of the CPA start date shall be provided by the time of inclusion of each CPA in the PoA.</p>	<p>Start date confirmation through one of the following documents:</p> <ul style="list-style-type: none"> - Contract between the project developer and a third party related to the implementation or construction of the CPA (EPC, etc.); - Purchase order(s) of equipment /technology or any other significant expenditure; - Any other relevant document, e.g.: order or notice to proceed. 	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 14 (d) of PoA Standard. The condition has to be fulfilled as per PoA requirements to ensure that no CPA starts before the start date of the PoA on 2014-05-05.</p> <p>The presented documents to assess this issue are the ones necessary for the validation of demonstration of the additionality used for the inclusion of the CPA.</p>
e.	<p>The CPA must comply with the following requirements as per the provisions established in the methodology ACM0002 (version 16.0).</p>	<p>CPA compliance with ACM0002 (version 16.0) requirements is described in section B.2 above.</p> <p>Compliance with these requirements is proved by:</p> <ul style="list-style-type: none"> - EIA/RIMA and/or Environmental Licenses; - Other documents, e.g.: engineering studies, etc. 	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (e) of PoA Standard. The condition has to be fulfilled as per CDM requirements.</p> <p>In addition, it is verifiable, objective and comprehensive, as the EIA/RIMA and licenses are official and public approved. Other specific documents may also be used.</p>
f.	<p>The CPA shall demonstrate additionality as per the stepwise procedure contained in the "Tool for the demonstration and assessment of additionality" (version 7.0.0):</p>	<p>Additionality is demonstrated by conducting an additionality assessment at each CPA-DD according to the "Tool for the demonstration and assessment of</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (f) of PoA Standard. The condition has to be fulfilled as per CDM requirements.</p> <p>It is a verifiable, objective and comprehensive, as the additionality of the project has to be assessed against "Tool for the demonstration</p>

No.	Eligibility criteria for the generic CPA	Means for assessment of inclusion of CPA	Means of validation/Findings/Conclusion
	<p>Step 0: Demonstration whether the proposed project activity is the first-of-its-kind;</p> <p>Step 1: Identification of alternatives to the project activity;</p> <p>Step 2: Investment analysis;</p> <p>Step 3: Barriers analysis; and</p> <p>Step 4: Common practice analysis</p> <p>Alternatively, the project proponents have also the option to apply the “simplified procedure to demonstrate additionality”, as per the provisions contained in section 5.3.1 of the methodology ACM0002 (version 16.0).</p>	<p>additionality” (version 7.0.0) and providing the required documentation to back-up the assessment. i.e., if additionality is demonstrated by an investment analysis, documentation to support the values of input parameters, e.g.: quotations, contracts, purchase orders, spot energy price, etc.</p> <p>Alternatively, as per the provisions contained in section “5.3.1. Simplified procedure to demonstrate additionality” of the methodology ACM0002 (version 16.0), specific technologies mentioned in the positive list can be defined as automatically additional if any of the following conditions is met:</p> <p>(a) The percentage share of total installed capacity of the specific technology in the total installed grid connected power generation capacity in the host country is equal to or less than two per cent; or</p> <p>(b) The total installed capacity of the technology in the host country is less than or equal to 50 MW.</p> <p>In the case of Brazil, ANEEL publicly available database shall be used for this purpose.</p>	<p>and assessment of additionality” and alternatively, as per the provisions contained in section “5.3.1. Simplified procedure to demonstrate additionality” of the methodology ACM0002 (version 16.0).</p> <p>This is also necessary for the validation of the inclusion of the CPA.</p>
g.	- Environmental impact analysis shall be conducted at CPA level	If applicable, environmental impact analysis evidenced by:	The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (g) of

No.	Eligibility criteria for the generic CPA	Means for assessment of inclusion of CPA	Means of validation/Findings/Conclusion
	<p>for all CPAs with installed capacity higher than 10 MW, according to the applicable environmental laws and regulations.</p> <p>- Local stakeholder consultation is conducted at the PoA level and according to the Brazilian DNA requirements to issue the Letter of Approval. The CME does not stipulate any specific for local stakeholder consultations at CPA level.</p>	<p>- EIA/RIMA and/or Environmental License(s).</p>	<p>PoA Standard. The condition has to be fulfilled as per the Brazilian environmental legislation and the CDM requirements.</p> <p>In addition, it is verifiable, objective and comprehensive, as any electricity project in Brazil has to present an EIA or similar environmental study to further require the preliminary, installation or operation license (one at the respective time), which documents are official and public.</p>
h.	<p>The financing for the CPA will be confirmed to be consistent with the PoA financing described in the PoA-DD. A confirmation will be required that no funding is coming from Annex I parties, or if it does, that this is not a diversion of ODA.</p>	<p>Written confirmation that no ODA was diverted at the CPA-DD.</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in order to conform to the requirements of Paragraph 18 (h). The use of financing of official development assistance is not allowed in line with CDM requirements.</p> <p>In addition, it is verifiable, objective and comprehensive, as the DD itself shall contain this information in a formal way.</p>
i.	<p>The CPA shall correspond with the target group:</p> <p>Greenfield grid-connected (SIN) renewable energy power projects, such as geothermal.</p> <p>The projects are not expected to have any distribution mechanisms.</p>	<p>Confirmation by one of the following documents:</p> <p>- EIA/RIMA and/or Environmental License(s);</p> <p>- Other documents, e.g.: engineering studies, etc.</p>	<p>The PoA-DD sets the eligibility criterion for inclusion of the CPAs in accordance with Paragraph 18 (i) of PoA Standard. The condition has to be fulfilled as per the CDM requirements and Brazilian electric sector framework.</p> <p>In addition, it is verifiable, objective and comprehensive, as the EIA/RIMA and licenses of a geothermal plant are official and public approved. Other specific documents may also be used.</p>

The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:

CL B1: At Section B.5 of Part II:

- the compliance to criterion (b) the avoidance of double counting does not include the verification of the participation in other GHG programs besides the CDM;*
- the eligibility criterion (c) does not set the criteria for the technology for each generic CPA type;*
- the compliance to criterion (h), the financing of the CPA is not required to be demonstrated by a formal document.*

The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.

All eligibility criteria established for the CPA inclusion in the PoA have been sufficiently accomplished.

B.5. Estimation of emission reductions or net GHG removals by sinks of the generic CPA

B.5.1. Explanation of methodological choices

Means of validation	<p>By means of comparison of the generic CPA with the PoA-DD and applied CDM methodology, the validation team has assessed the steps taken and the equation and parameters applied to calculate the emission reductions or net GHG removals for the generic CPA were assessed in accordance with the applicable requirements in the VVS and the PoA standard.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/
Findings	<p><input checked="" type="checkbox"/> All formulae to calculate baseline emissions have been applied in line with the underlying methodology and the PoA.</p> <p><input checked="" type="checkbox"/> All formulae to calculate project emissions have been applied in line with the underlying methodology and the PoA.</p> <p><input checked="" type="checkbox"/> All formulae to calculate leakage emissions have been applied in line with the underlying methodology and the PoA.</p> <p><input type="checkbox"/> The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</p> <p>-</p>
Conclusion	<p><input checked="" type="checkbox"/> No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.</p> <p><input type="checkbox"/> The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</p> <p>The generic CPA includes a correct and complete description of the methods or methodological steps as described in the applied methodology to calculate baseline, project and leakage emissions. All the equations to calculate the ERs are in accordance with the applied methodology and PoA.</p> <p>The <u>Baseline Emissions</u> are calculated by the following formula: $BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$ Where: - BE_y: Baseline emissions in year y; - $EG_{PJ,y}$: Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y; - $EF_{grid,CM,y}$: Combined margin CO₂ emission factor for grid connected power generation in year y calculated using the latest version of the “Tool to calculate the emission factor for an electricity system”.</p> <p>As the project activity is the installation of a greenfield power plant: $EG_{PJ,y} = EG_{facility,y}$ (quantity of net electricity generation supplied by the project plant/unit to the grid in year y).</p> <p>The <u>Project Emissions</u> for geothermal projects as per the applied methodology (ACM0002 – v. 16.0) is: $PE_y = PE_{GP,y}$ (Project emissions from the operation of the geothermal power plants due to the release of non-condensable gases in year y).</p> <p>$PE_{GP,y}$ is calculated as follows: $PE_{GP,y} = (W_{steam,CO2,y} + W_{steam,CH4,y} \times GWP_{CH4}) \times M_{steam,y}$ Where: - $PE_{GP,y}$: Project emissions from the operation of the geothermal power plants due to the release of non-condensable gases in year y;</p>

	<ul style="list-style-type: none"> - $W_{steam,CO_2,y}$: Average mass fraction of CO₂ in the produced steam in year y; - $W_{steam,CH_4,y}$: Average mass fraction of CH₄ in the produced steam in year y; - GWP_{CH_4}: Global warming potential of CH₄ valid for the relevant commitment period; - $M_{steam,y}$: Quantity of steam produced in year y. <p>In addition, for the applied methodology, no leakage emissions are to be considered. So: $L_y = 0$.</p>
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B.5.2. Data and parameters fixed ex ante

Means of validation	<p>During the validation all parameters that are not monitored during the crediting period (as listed in chapter B.6.2 of the generic CPA-DD) have been checked in accordance with the requirements of the methodology, tools, underlying PoA, VVS, PoA Standard, and where applicable, the Sampling Standard.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ • /POAS/ • /unfccc/ 								
Findings	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td> <td>The list of parameters which are determined ex-ante is complete.</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td>The provided values are correct for all parameters.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:</td> </tr> <tr> <td></td> <td>-</td> </tr> </table>	<input checked="" type="checkbox"/>	The list of parameters which are determined ex-ante is complete.	<input checked="" type="checkbox"/>	The provided values are correct for all parameters.	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:		-
<input checked="" type="checkbox"/>	The list of parameters which are determined ex-ante is complete.								
<input checked="" type="checkbox"/>	The provided values are correct for all parameters.								
<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:								
	-								
Conclusion	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td> <td>No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.</td> </tr> <tr> <td><input type="checkbox"/></td> <td>The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.</td> </tr> </table> <p>The list of the ex-ante parameters is complete in accordance with applied methodology, tools and PoA.</p> <p>The fixed parameters are:</p> <ul style="list-style-type: none"> - $EF_{grid,BM,2014}$: Build margin CO₂ emission factor for the project electricity system in year y; - GWP_{CH_4}: Global warming potential of methane valid for the relevant commitment period. <p>For each identified parameter, a separate table has been included in line with the given instructions with value, choice of data, measurement methods and procedures and purpose of data.</p> <p>The applied value for the $EF_{grid,BM,2014}$ is correct and in accordance to the selected data source which is clear and valid from public and official source. The value applied for the parameter is 0.2963 tCO₂/MWh, which is correct as per the Brazilian DNA's website.</p> <p>The applied value for the GWP_{CH_4} is 25 tCO₂e/tCH₄, which is a IPCC value for the second commitment period.</p>	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.				
<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.								
<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.								

B.5.3. Ex ante calculation of emission reductions or net GHG removals by sinks

Means of validation	<p>By means of comparison of the generic CPA in the PoA-DD with the applied CDM methodology, methodological tools and presented calculations, the validation team has assessed the estimated emissions reductions of the component project activity in accordance with applicable related validation requirements in the VVS.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /CPADD/ • /POADD/ • /METH/ • /XLS/ 		
Findings	<table border="1"> <tr> <td><input checked="" type="checkbox"/></td> <td>The equations applied for calculation are correctly applied according to the approved methodology.</td> </tr> </table>	<input checked="" type="checkbox"/>	The equations applied for calculation are correctly applied according to the approved methodology.
<input checked="" type="checkbox"/>	The equations applied for calculation are correctly applied according to the approved methodology.		

	<input checked="" type="checkbox"/>	All values of data to be applied are considered to be reasonable, applicable and conservative.
	<input checked="" type="checkbox"/>	The ER calculation formula as described in B.6.3 is correct.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context:
		-
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		All equations, formulas and conservative assumptions have been applied correctly as per the applied methodology (ACM0002 – 16.0). The methodology does not allow different methodological choices. The baseline emissions are to be calculated based on net energy generated multiplied by the combined margin emission factor (EF) calculated according to the <i>Tool to Calculate the emission factor for an electric system</i> and published by the Brazilian DNA. The fixed parameter is calculated as per the emission factor tool and it will lead to a conservative estimation of emission reductions. The ERs are expected to be real, measurable and give long-term benefits related to the mitigation of climate change. The correct formula has been included.

B.6. Application of the monitoring methodology and description of the monitoring plan

Means of validation	By means of comparison of the PoA-DD and generic CPA the validation team has assessed whether the CME has chosen to delay the submission of the monitoring plan for the PoA and its generic CPA(s).	
	The following sources of information have been used in this context:	
	<ul style="list-style-type: none"> • /POADD/ • /METH/ • /unfccc/ 	
Findings	<input checked="" type="checkbox"/>	Not applicable as the monitoring plan for the PoA and its generic CPA(s) has been submitted.
	<input type="checkbox"/>	The CME has chosen to delay the submission of the monitoring plan for the PoA and its generic CPA(s).
		-
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		The CME has submitted the monitoring plan for the PoA and its generic CPA(s).

B.6.1. Data and parameters to be monitored by the generic CPA

Means of validation	During the validation all monitoring parameters (as listed in chapter B.7.1 of the generic CPA) have been checked with regard to the	
	<ul style="list-style-type: none"> (i) description, (ii) source of data, (iii) appropriateness of the applied measurement / determination method, (iv) monitoring frequency, (v) applied QA/QC measures, (vi) purpose of data, (vii) formats. 	
	The following sources of information have been used in this context:	
	<ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ 	
Findings	<input checked="" type="checkbox"/>	The list of parameters which are to be monitored is complete.

	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: -
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.
	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
	<p>The list of the parameters is complete and the monitoring is in accordance with applied methodology, tools and PoA.</p> <p>For each identified parameter a separate table has been included in line with the given instructions with value, description, source of data, appropriateness of the applied measurement / determination method and responsible persons, monitoring frequency, applied QA/QC measures, purpose of data and formats.</p> <p>All monitoring parameters required for a geothermal project by ACM0002 are contained in the monitoring plan:</p> <ul style="list-style-type: none"> - $EF_{grid,OM,y}$: Operation margin emission factor in year y; - $EF_{grid,CM,y}$: Combined margin CO_2 emission factor for grid connected power generation in year y calculated using the latest version of the "Tool to calculate the emission factor for an electricity system"; - $EG_{facility,y}$ (or $EG_{PJ,y}$): Quantity of net electricity generation supplied by the project plant/unit to the grid in year y; - $W_{steam,CO_2,y}$: Average mass fraction of carbon dioxide in the produced steam in year y. <p>Parameter $EG_{facility,y}$ is monitored by plant meters and $W_{steam,CO_2,y}$ is monitored at least every three months at project site.</p> <p>$EF_{grid,OM,y}$ given by the Brazilian DNA and parameter $EF_{grid,CM,y}$ is calculated with the value $EF_{grid,OM,y}$ and the value of the ex-ante value of $EF_{grid,BM,y}$. The weightings of $EF_{grid,OM,y}$ and $EF_{grid,BM,y}$ are given by the <i>Tool to calculate the emission factor for an electricity system</i> for geothermal projects, which are: $w_{OM} = 0.5$ and $w_{BM} = 0.5$ – for the first crediting period and $w_{OM} = 0.25$ and $w_{BM} = 0.75$ – for the second and third crediting periods.</p> <p>The validation procedure is described parameter-wise in the project specific validation checklist (Appendix 5).</p>	

B.6.2. Description of the monitoring plan for the generic CPA


Means of validation	<p>During the validation all monitoring parameters (as listed in chapter B.7.1 of the generic CPA) have been checked with regard to the applied methodology and tools and PoA.</p> <p>The monitoring arrangements for the parameters can be implemented, the QA/QC procedures are appropriate and sufficient to ensure that the emission reductions to be achieved from a component project activity can be reported ex-post and further verified. In addition, procedures, type of data and responsibilities are identified and provisions for data archiving are made.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /POADD/ • /METH/ • /MT/ 	
Findings	<input checked="" type="checkbox"/>	The monitoring plan of the generic CPA is in accordance with the underlying methodology/ies.
	<input checked="" type="checkbox"/>	The means of monitoring of all parameters contained in the monitoring plan are feasible.
	<input type="checkbox"/>	A sampling plan has been provided in line with the standard for sampling and surveys.
	<input type="checkbox"/>	The respective requirements have widely been complied with. However, the following issues needed to be addressed in this context: -
Conclusion	<input checked="" type="checkbox"/>	No CARs/CLs have been raised in this context. No correction was required in the context. The project is in line with the respective requirements.

	<input type="checkbox"/>	The raised CARs/CLs have been addressed appropriately. The PP has carried out the requested corrections. All respective findings could be closed out. For details please refer to Appendix 4.
		It can be confirmed that the monitoring plan and the means of the monitoring of its parameters is feasible. In addition, the monitoring plan for a CPA is in accordance with the approved monitoring methodology. No sampling plan has been provided.

Appendix 1. Abbreviations

Abbreviations	Full Texts
ANEEL	Brazilian Electricity Regulatory Agency
BAU	Business as usual
BM	Build Margin
CA	Corrective Action / Clarification Action
CAR	Corrective Action Request
CCEE	Chamber of Commerce of Electric Energy
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification Request
CM	Combined Margin
CME	Coordinating / Managing Entity
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
CONAMA	National Environmental Council
COP/MOP	Conference of Parties / Meeting of Parties
CP	Certification Program
DNA	Designated National Authority
CPA	Component Project Activity
CPA-DD	Component Project Activity Design Document
EIA	Environmental Impact Assessment
EPE	Energetic Research Enterprise
FAR	Forward Action Request
GE	General Electric
GHG	Greenhouse gas(es)
GT	Glossary of Terms
IPCC	Intergovernmental Panel on Climate Change
LoA	Letter of Approval
MoC	Modalities of Communication
MME	Ministry of Mines and Energy
MP	Monitoring Plan
OM	Operating Margin
NAMA	Nationally Appropriate Mitigation Actions
NCRE	Non-Conventional Renewable Energy
ONS	National Operator of the Electric System
OSV	On-site visit
PA	Project Activity
PoA	Programme of Activities
PoA-DD	CDM Programme of Activities Design Document
PP	Project Participant(s)
PPA	Power Purchase Agreement
QA/QC	Quality assurance/Quality control
RAS	Simplified Environmental Report
SIN	National Interconnected System
UNFCCC	United Nations Framework Convention on Climate Change

Appendix 2. Competence of team member and technical reviewer(s)



Statement of Competence
Appointment and authorization according to the procedures of the TÜV NORD JCCM Certification Program

Mr. Sergio Cruz


SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification)	2017-12-16
VCS / ISO 14064-2	Senior Assessor	2017-12-16

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewables
13.1	Solid waste and wastewater

185 - Rev. 6, Date: 2015-01-07

185_2011-04080-F20-w-3-01-07_w-6.doc



Statement of Competence
Appointment and authorization according to the procedures of the TÜV NORD JCCM Certification Program

Mr. Ricardo Lopes


SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification)	2018-03-03
VCS / ISO 14064-2	Senior Assessor	2018-03-03

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewables
13.1	Solid waste and wastewater

77 - Rev. 6, Date: 2015-03-04

185_2011-04080-F20-w-3-01-07_w-6.doc



Statement of Competence
Appointment and authorization according to the procedures of the TÜV NORD JCCM Certification Program

Mr. Marcelo Sebben

SCHEME	STATUS	VALID UNTIL
CDM	Lead Assessor (Validation, Verification)	2017-08-31
VCS / ISO 14064-2	Lead Assessor	2017-08-31

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewables
13.1	Solid waste and wastewater

287 - Rev. 6, Date: 2015-01-07

287_2011-04080-F20-w-3-01-07_w-6.doc

Appendix 3. Documents reviewed or referenced

No.	Reference	Author	Title	References to the document	Provider
1.	/CPM/	DOE	TÜV NORD JI / CDM CP Manual (incl. CP procedures and forms)	-	Other
2.	/GOT/	UNFCCC	Glossary "CDM terms" – version 08.0	https://cdm.unfccc.int/filestorage/e/x/t/extfile-20150226124447549-glos_CDM.pdf/glos_CDM.pdf?t=UmZ8bnFjODI3fDCW9A3vJwR03kQQh4sbLiYu	Other
3.	/IPCC/	IPCC	1. 1996 IPCC Guidelines for National Greenhouse Gas Inventories: work book 2. 2006 IPCC Guidelines for National Greenhouse Gas Inventories: work book	www.ipcc-nggip.iges.or.jp	Other
4.	/KP/	UNFCCC	Kyoto Protocol (1997)	http://unfccc.int/kyoto_protocol/items/2830.php	Other
5.	/MA/	UNFCCC	Decision 3/CMP. 1 (Marrakesh – Accords)	http://cdm.unfccc.int/Reference/CO2PMOP/index.html	Other
6.	/METH/	UNFCCC	ACM0002 – version. 16.0 – Grid-connected electricity generation from renewable sources	http://cdm.unfccc.int/methodologies/DB/EY2CL7RTEHRC9V6YQHLAR6MJ6VEU83	Other

7.	/MT/	UNFCCC	<u>Methodological Tools:</u> - Tool to calculate the emission factor for an electricity system – version 05.0 - Tool for the demonstration and assessment of additionality - version 07.0.0	http://cdm.unfccc.int/Reference/tools/index.html	Other
8.	/POADD-T/	UNFCCC	Programme design document form for CDM programmes of activities – version 06.0	https://cdm.unfccc.int/Reference/PDs_Forms/index.html	Other
9.	/POAS/	UNFCCC	Standard for demonstration of additionality, development of eligibility criteria and Application of Multiple Methodologies for Programme of Activities – version 04.0	http://cdm.unfccc.int/Reference/Standards/index.html	Other
10.	/PS/	UNFCCC	CDM Project Standard – version 9.0	http://cdm.unfccc.int/Reference/Standards/index.html	Other
11.	/SAMPLE/	UNFCCC	- Guidelines for Sampling and Surveys for CDM Project Activities and Programme Activities – version 04.0 - Standard for Sampling and Surveys for CDM Project Activities and Programme Activities – version 5.0	https://cdm.unfccc.int/Reference/Guidclarif/index.html http://cdm.unfccc.int/Reference/Standards/index.html	Other
12.	/VVS/	UNFCCC	CDM Validation and Verification Standard – version 09.0	http://cdm.unfccc.int/Reference/Standards/index.html	Other
13.	/CON/	DOE	Signed Proposal for Carrying out the validation of the CDM project “Brazilian PoA for NAMA incentivized NCRE Projects” among TÜV Nord and Tractebel Energia S.A. – 15PoABR080121	2015-08-13	Other
14.	/EL/	CONAMA CONAMA	<u>Environmental Legislation:</u> - Resolution # 1/1986 - Resolution # 279/2001	-	Other
15.	/LEGIS/	ANEEL ANEEL MME	<u>Legislation:</u> - Law # 8987 – Concession Law - Resolution # 394 – Framework to be considered a Small Hydroelectric Power Plant - Normative Resolution # 77 – Reduction of Transmission Fees - Decree # 6263 – establishment of the Interministerial Committee on Climate Change - Law # 12187 – Climate Change National Policy - Decree # 7390 – Climate Change National Policy Regulation - Ordinance # 29 – Rules for Anemometric Monitoring	1995-02-13 1998-12-04 2004-08-18 2007-11-21 2009-12-29 2010-12-09 2011-01-28	Other
16.	/LOA/	DNA	Letter of Approval	2016-10-13	Other
17.	/MOC/	CME	Modalities of Communication	2016-07-14	CME
18.	/POADD/	CME	Programme of Activities design document: “Brazilian PoA for NAMA incentivized NCRE Projects” - version 01 - version 02 - version 03 - version 04 - version 04.1	2015-11-20 2015-12-10 2016-03-02 2016-03-28 2016-07-13	CME

19.	/PSD/	CME DNA UNFCCC	<u>Prior consideration and project starting date:</u> - CDM programme of activities prior consideration form - Brazilian DNA response confirming that the communication was received on 2014-05-05 - Print screen of UNFCCC website	2014-05-05	CME / Others
20.	/SHCP/	CME Brazilian Post CME UNFCCC	<u>Stakeholder consultation process:</u> - Invitation letter to stakeholders - Proof of Delivery - Stakeholder Communication Form asking for the exemption of paragraph 78 of the CDM Project Standard - version 09.0 - Exemption letter to the requirement of paragraph 78 of the CDM Project Standard - version 09.0 – Reference: INQ-04372	2015-10-19 2015-10-21 and 22 2016-01-29 2016-02-11	CME / Others
21.	/aneel/	-	National Electric Energy Agency	http://www.aneel.gov.br/	Other
22.	/bcb/	-	Central Bank of Brazil	http://www.bcb.gov.br	Other
23.	/ccee/	-	Chamber of Electric Energy Commerce	http://www.ccee.org.br/	Other
24.	/conama/	-	National Environmental Council	http://www.mma.gov.br/port/conama/	Other
25.	/dna/	-	DNA of Brazil	http://www.mct.gov.br	Other
26.	/ipcc/	-	IPCC publications	www.ipcc-nggip.iges.or.jp	Other
27.	/ons/	-	National Operator of the Electric System	http://www.ons.org.br/home/	Other
28.	/unfccc/	-	UNFCCC	http://cdm.unfccc.int	Other

Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. CL from this validation – PoA-DD – PART I

CL ID	A1	Section no.	PART I; PART II.A,B,C; B.1– PART II.A,B,C	Date: 11/12/2015
Description of CL				
<p>According to the “Instructions for filling out the project design document form for CDM project activities”, some issues are not correct:</p> <ol style="list-style-type: none"> the version numbers of the following documents are outdated throughout the PoA-DD: <ol style="list-style-type: none"> CDM Project Standard; Standard “Demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programmes of activities”; Tool to calculate the emission factor for an electricity system; at Section B.1 of the Generic CPA of the PoA-DD, the references to the UNFCCC CDM website for the methodology and methodological tools are missing. 				
Project participant response (1st round)				Date: 15/12/2015

The names and version numbers of the above stated documents have been updated.

Exact references for approved baseline and monitoring methodologies are included to the Generic CPA of the PoA-DD in line with the UNFCCC CDM website.

Documentation provided by project participant (1 st round)			
<input checked="" type="checkbox"/>	Changes in the PDD	Section(s): PART I; PART II.A,B,C; B.1– PART II.A,B,C	New version No.: 02
<input type="checkbox"/>	Changes in MR	Section(s):	New version No.:
<input type="checkbox"/>	Changes in XLS	Worksheet(s):	New version No.:
<input type="checkbox"/>	Other:		
DOE assessment (1 st round)			Date: 15/01/2016
<p>1. The version of the following documents has been revised throughout the PoA-DD and now the most updated documents are referred and used in the programme of activities:</p> <ul style="list-style-type: none"> a. CDM Project Standard – version 09.0; b. Standard “Demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programmes of activities” – version 04.0; c. Tool to calculate the emission factor for an electricity system – version 05.0. <p>2. The references to the UNFCCC CDM website for the methodology and methodological tools have been correctly included at Section B.1 at the Generic CPA of the PoA-DD (all three Generic CPAs).</p>			
CL is closed			
Conclusion Tick the appropriate checkbox		<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed	

CL ID	A2	Section no.	A.3 – PART I	Date: 11/12/2015
Description of CL				
<i>The installed capacity of Tractebel is not consistent with the number given in section D.5 of CPA-DD, taken from Administration Report and Financial Statements of the Exercises 2013 and 2012 of Tractebel.</i>				
Project participant response (1st round)				Date: 15/12/2015
<p>Please note a distinction is made in regards to assets “owned” and “operated” by Tractebel. .</p> <p>The installed capacity referred in section A.3 of the PoA-DD refers to the assets owned by Tractebel according to the latest information available at the time of submission of the PoA-DD to validation.</p> <p>Section D.5 of the CPA-DD refers to the installed capacity operated by Tractebel as per the Administration Report and Financial Statements of the Exercises 2013 and 2012 of the company.</p> <p>Therefore, the values referred have different meanings and purposes in the Project documents.</p>				
Documentation provided by project participant (1 st round)				
<input type="checkbox"/>	Changes in the PDD	Section(s): -	New version No.: -	
<input type="checkbox"/>	Changes in MR	Section(s):	New version No.:	
<input type="checkbox"/>	Changes in XLS	Worksheet(s):	New version No.:	
<input type="checkbox"/>	Other:			
DOE assessment (1 st round)				Date: 15/01/2016
<p>It was clarified by the CME that the referred values reflect different scenarios: section A.3 of the PoA-DD refers to the installed capacity of assets owned by the CME (7,044 MW); Section D.5 of the CPA-DD refers to the Administration Report and Financial Statements of the Exercises 2013 and 2012 of Tractebel which is about the installed capacity of assets operated by the CME (8,685.4 MW).</p> <p>Thus, the issue is clear and each scenario is consistent with the presented evidences.</p>				
CL is closed				
Conclusion Tick the appropriate checkbox		<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed		

Table 2. CL from this validation – PoA-DD – PART II

CL ID	A3	Section no.	A.1 – PART II.A	Date: 11/12/2015
Description of CL				
<i>According to paragraph 65 of applied methodology ACM0002 – v. 16.0, it is necessary to describe and justify which CPAs are regarded to be of the same type as per the <u>demonstration of additionality, emission reduction calculations and monitoring</u>.</i>				

Project participant response (1st round)		Date: 15/12/2015	
<p>According to paragraph 65 of ACM0002 version 16.0, under this PoA, three types of CPAs have been identified based on the similarity of the demonstration of additionality, emission reduction calculations and monitoring of each type.</p> <p>The three types of CPA included under the PoA are:</p> <ul style="list-style-type: none"> • Method for wind, solar, wave and tidal projects • Method for small hydropower plant projects with or without reservoir • Method for geothermal projects <p>The approach is also in line with the provisions established in CDM project standard v09.0, paragraph 207 and footnote 21 which states: "For PoAs applying more than one technology/measure or more than one methodology, the coordinating/managing entity shall prepare a generic CPA for each technology/measure, each methodology and each combination thereof"... "However, separate generic CPA-DDs are not required to cover cases that do not differ in terms of emission reduction calculations".</p> <p>A clarification has been included in Section B.2. of the PoA-DD.</p>			
Documentation provided by project participant (1st round)			
<input checked="" type="checkbox"/>	Changes in the PDD	Section(s): B.2	New version No.: 02
<input type="checkbox"/>	Changes in MR	Section(s):	New version No.:
<input type="checkbox"/>	Changes in XLS	Worksheet(s):	New version No.:
<input type="checkbox"/>	Other:		
DOE assessment (1st round)		Date: 15/01/2016	
<p>As the demonstration of additionality, emission reduction calculations and monitoring are the same for wind, solar, wave and tidal projects, one Generic CPA-DD has been presented for all four types of projects.</p> <p>As small hydropower plant projects (with or without reservoir) and geothermal projects are different among them and both are also different from the other four (wind, solar, wave and tidal) regarding the emission reduction calculations and monitoring, individual Generic CPA-DDs have been presented.</p> <p>Thus, in accordance with paragraph 65 of applied methodology ACM0002 – v. 16.0 and PS 09.0, three Generic CPA-DDs were correctly proposed:</p> <ol style="list-style-type: none"> Generic CPA-DD for wind, solar, wave and tidal projects; Generic CPA-DD for hydropower plant projects (with or without reservoir); and Generic CPA-DD for geothermal projects. 			
CL is closed			
Conclusion Tick the appropriate checkbox		<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed	

CL ID	B1	Section no.	B.5 – PART II.A,B,C	Date: 11/12/2015
Description of CL				
<p>At Section B.5 of Part II:</p> <ol style="list-style-type: none"> the compliance to criterion (b) the avoidance of double counting does not include the verification of the participation in other GHG programs besides the CDM; the eligibility criterion (c) does not set the specification for the technology for each generic CPA type; the compliance to criterion (h), the financing of the CPA is not required to be demonstrated by a formal document. 				
Project participant response (1st round)		Date: 15/12/2015		
<p>Section B.5 of Part II of all generic CPAs has been adjusted to address points "a" and "c".</p> <p>Section B.2. of the PoA-DD has been edited to clarify point b.</p>				
Documentation provided by project participant (1st round)				
<input checked="" type="checkbox"/>	Changes in the PDD	Section(s): B.5 – PART II.A,B,C	New version No.: 02	
<input type="checkbox"/>	Changes in MR	Section(s):	New version No.:	
<input type="checkbox"/>	Changes in XLS	Worksheet(s):	New version No.:	
<input type="checkbox"/>	Other:			
DOE assessment (1st round)		Date: 15/01/2016		
<ol style="list-style-type: none"> Criterion (b): now there is clear reference to the necessity to conduct a search at UFCCC registry and other GHG programs to check that the CPA is not part of a standalone project or bundled project 				

or PoA under any CDM or other GHG programs process stage. So, the criterion included the verification of the participation of the CPA in other GHG programs besides the CDM.

- b. Criterion (c): the specification for the technologies included at each generic CPA type is clear;
- c. Criterion (h): it is clearly stated that a formal document shall be presented to evidence that no diversion of ODA at the CPA.

CL is closed

Conclusion Tick the appropriate checkbox	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed
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Table 3. CAR from this validation – PoA-DD – PART I

CAR ID	B1	Section no.	B.2 – PART I	Date: 11/12/2015
Description of CAR				
<i>At Section B.2 of Part I of the PoA-DD, the Common Practice Analysis referred at the eligibility criterion (f) is not correct as the demonstration of additionality shall be done for each specific project activity (CPA) and not to the PoA.</i>				
Project participant response (1st round)				Date: 15/12/2015
<p>The Project Participants clarify the demonstration of additionality (including common practice) will be performed at the CPA level in line with the Standard: Demonstration of additionality, development of eligibility criteria and application of multiple methodologies for programmes of activities.</p> <p>Each CPA will follow the stepwise approach for common practice as defined in the Methodological tool: Common practice Version 03.1. According to Step 2 of the tool, project participants should identify similar projects (both CDM and non-CDM) which, among other conditions, "started commercial operation before the project design document (CDM-PDD) is published for global stakeholder consultation or before the start date of proposed project activity, whichever is earlier for the proposed project activity."</p> <p>In line with this definition, only projects which have started commercial operation before the PoA was published for global stakeholder consultation (i.e. earlier than any CPA start date) should be taken into account for the common practice analysis.</p> <p>Please also note that by using ANEEL publicly available database, the Project Participants can identify the units within the applicable capacity range of each CPA, in line with the Step 2: (e) of the Common practice tool.</p>				
Documentation provided by project participant (1st round)				
<input type="checkbox"/>	Changes in the PDD	Section(s): -	New version No.: -	
<input type="checkbox"/>	Changes in MR	Section(s):	New version No.:	
<input type="checkbox"/>	Changes in XLS	Worksheet(s):	New version No.:	
<input type="checkbox"/>	Other:			
DOE assessment (1st round)				Date: 15/01/2016
<p>It is clear that the demonstration of additionality will be done at the CPA level, and consequently, the Common Practice Analysis will also be done at the CPA level. In addition, it is clear that the capacity range will be calculated for each CPA to be analysed.</p> <p>Nevertheless, as all Common Practice Analysis shall be done at the CPA level, the consideration of the starting commercial operation of similar projects to the CPA cannot be compared to the PoA start date.</p>				
CAR remains open				
Project participant response (2nd round)				Date: 02/03/2016
<i>The PoA and CPA sections that refer to the common practice analysis have been updated to remove the reference to the PoA starting date.</i>				
Documentation provided by project participant (2nd round)				
<input checked="" type="checkbox"/>	Changes in the PDD	Section(s): B.2 – PART I; B.5 – PART II.A,B,C; D.5 (CPA-DD)	New version No.: 03	
<input type="checkbox"/>	Changes in MR	Section(s):	New version No.:	
<input type="checkbox"/>	Changes in	Worksheet(s):	New version No.:	
<input type="checkbox"/>	Other:			
DOE assessment (2nd round)				Date: 03/03/2016
Section B.2 of the PoA-DD Part I has been revised with the exclusion of the reference to the PoA start date, as the Common Practice analysis shall be done at CPA level for each CPA. Therefore, Sections B.5 of the				

Generic CPAs (PoA-DD Part II) and Section D.5 of the CPA-DD have been revised in accordance with the new criterion.	
CAR is closed	
Conclusion Tick the appropriate checkbox	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed

CAR ID	F1	Section no.	F – PART I	Date: 11/12/2015
Description of CAR				
<p>According to the PS v.09 paragraph 78, the coordinating/managing entity shall complete the local stakeholder consultation process before the start date of the PoA, as defined in the "Glossary of CDM terms".</p> <p>Nevertheless, relevant stakeholders have been invited for the consultation on 2015-10-19 and the date of notification of the intention to seek the CDM status by the CME to the DNA of the Brazil and the secretariat is 2014-05-05.</p>				
Project participant response (1st round)				Date: 15/12/2015
<p>The local stakeholder consultation process for the PoA was conducted in accordance with the applicable CDM rules at the time of the consultation.</p> <p>A comprehensive local stakeholder consultation process was carried out for Santa Mônica Wind Complex in 2013, thus before the start date of the PoA.</p> <p>This consultation was part of the environmental impact assessment process and according to the applicable environmental regulation (CONAMA resolutions: N° 001/86, N° 009/87 and N° 237/97).</p> <p>Details of the consultation are provided in section B.1. of the CPA-DD.</p> <p>In regards to the changes occurred to PS after the project starting date, we understand such new rules should not be applied retroactively. The Project Participant is preparing a formal request to UNFCCC Secretariat to confirm the rule does not apply to the PoA and CPA.</p>				
Documentation provided by project participant (1st round)				
<input type="checkbox"/>	Changes in the PDD	Section(s):	New version No.:	
<input type="checkbox"/>	Changes in MR	Section(s):	New version No.:	
<input type="checkbox"/>	Changes in XLS	Worksheet(s):	New version No.:	
<input checked="" type="checkbox"/>	Other: Exemption letter to the requirement of paragraph 78 of the CDM Project Standard – version 09.0 – EB			
DOE assessment (1st round)				Date: 15/01/2016
<p>A request for an exemption from the requirement of PS v.09.0 paragraph 78 was sent to the EB by the PP (Stakeholder Communication Form)^{/SHCP/}. The exemption to the requirement was granted to the project activity by the EB on 2016-02-11 (Reference: INQ-04372)^{/SHCP/}.</p> <p>In addition, the requirement of PS v.07.0 paragraph 77 was accomplished. The local stakeholder consultation process was completed before the submission of the proposed CDM project activity to the DOE. Thus, in accordance with the exemption conditions.</p>				
CAR is closed				
Conclusion Tick the appropriate checkbox	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed			

Table 4. CAR from this validation – PoA-DD – PART II

CAR ID	B2	Section no.	B.7.1 – PART II.B	Date: 11/12/2015
Description of CAR				
<p>At Section B.7.1, it is missing the monitored parameter TEG_y for the case of hydro power project activities with a power density greater than 4 W/m^2 and less than or equal to 10 W/m^2 as per applied methodology ACM0002.</p>				
Project participant response (1st round)				Date: 15/12/2015
<p>The monitored parameter TEG_y has been included as required.</p>				
Documentation provided by project participant (1st round)				
<input checked="" type="checkbox"/>	Changes in the PDD	Section(s): B.7.1 – PART II.B	New version No.: 02	
<input type="checkbox"/>	Changes in MR	Section(s):	New version No.:	
<input type="checkbox"/>	Changes in XLS	Worksheet(s):	New version No.:	

<input type="checkbox"/>	Other:
DOE assessment (1st round)	Date: 15/01/2016
The monitored parameter TEG_y has been included at Section B.7.1 – PART II – hydro, as required by the applied methodology ACM0002 for hydro power project activities with a power density greater than 4 W/m ² and less than or equal to 10 W/m ² .	
<u>CAR is closed</u>	
Conclusion <i>Tick the appropriate checkbox</i>	<input type="checkbox"/> Additional action should be taken (finding remains open) <input checked="" type="checkbox"/> The finding is closed

Table 5. FAR from this validation

FAR ID	-	Section no.	-	Date: -
Description of FAR				
CME response				Date: -
Documentation provided by CME				
DOE assessment				Date: -

Appendix 5. Monitored Parameters

Table A-5: Validation Checklist – Monitored Parameters

Checklist Item (incl. guidance for the verification team)	Reference	Validation Team Comments (Means and results of assessment)				Draft Concl.	Final Concl.
1. EG _{grid,OM,y}	Parameter (FOR ALL TYPES OF PLANTS): Operation margin emission factor in year y						
<i>Indicate whether the provided information for the monitoring parameter complies with the approved methodology including applicable tool(s) in the aspects listed.</i> <i>For checking the use of international standards in the nomenclature, consider:</i> <i>Standard format (e.g. 1,000 representing one thousand and 1.0 representing one).</i> <i>Values shall be directly given in SI units – or additionally to original units transferred to SI.</i> <i>Short scale naming system: (Only) million = 10⁶ and billion 10⁹ shall be used.</i>	/POADD/	Requirement	OK	Not OK	N/A	OK	OK
	/METH/ /MT/	Label	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Data Unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Description	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Source of data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Measurement equipment / measure method	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Monitoring frequency	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		QA/QC procedures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Purpose of data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Standard format	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		SI units	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Short scale naming	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
		In the context of this parameter the following finding was raised:					
		N/A					
2. EG _{grid,CM,y}	Parameter (FOR ALL TYPES OF PLANTS): Combined margin CO ₂ emission factor for grid connected power generation in year y calculated using the latest version of the “Tool to calculate the emission factor for an electricity system”						
<i>Indicate whether the provided information for the monitoring parameter complies with the approved methodology including applicable tool(s) in the aspects listed.</i> <i>For checking the use of international standards in the nomenclature, consider:</i> <i>Standard format (e.g. 1,000 representing one thousand and 1.0 representing one).</i> <i>Values shall be directly given in SI units – or additionally to original units transferred to SI.</i>	/POADD/	Requirement	OK	Not OK	N/A	OK	OK
	/METH/ /MT/	Label	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Data Unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Description	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Source of data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Measurement equipment / measure method	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Monitoring frequency	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		QA/QC procedures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
		Purpose of data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Checklist Item (incl. guidance for the verification team)	Reference	Validation Team Comments (Means and results of assessment)	Draft Concl.	Final Concl.																																																				
Short scale naming system: (Only) million = 10^6 and billion 10^9 shall be used.		Standard format <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> SI units <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Short scale naming <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <i>In the context of this parameter the following finding was raised:</i> N/A																																																						
3. EG_{facility,y}	<i>Parameter (FOR ALL TYPES OF PLANTS):</i> Quantity of net electricity generation supplied by the project plant/unit to the grid in year y																																																							
Indicate whether the provided information for the monitoring parameter complies with the approved methodology including applicable tool(s) in the aspects listed. For checking the use of international standards in the nomenclature, consider: Standard format (e.g. 1,000 representing one thousand and 1.0 representing one). Values shall be directly given in SI units – or additionally to original units transferred to SI. Short scale naming system: (Only) million = 10^6 and billion 10^9 shall be used.	/POADD/ /METH/	<table border="1"> <thead> <tr> <th>Requirement</th> <th>OK</th> <th>Not OK</th> <th>N/A</th> </tr> </thead> <tbody> <tr><td>Label</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Data Unit</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Description</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Source of data</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Measurement equipment / measure method</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Monitoring frequency</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>QA/QC procedures</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Purpose of data</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Standard format</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>SI units</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Short scale naming</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr> <tr><td colspan="4"><i>In the context of this parameter the following finding was raised:</i> N/A</td></tr> </tbody> </table>	Requirement	OK	Not OK	N/A	Label	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Data Unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source of data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Measurement equipment / measure method	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring frequency	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	QA/QC procedures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purpose of data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Standard format	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SI units	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Short scale naming	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<i>In the context of this parameter the following finding was raised:</i> N/A				OK	OK
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Short scale naming	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																																																					
<i>In the context of this parameter the following finding was raised:</i> N/A																																																								
4. Cap_{PJ}	<i>Parameter (FOR HYDRO PLANTS):</i> Installed capacity of the hydro power plant after the implementation of the project activity																																																							
Indicate whether the provided information for the monitoring parameter complies with the approved methodology including applicable tool(s) in the aspects listed. For checking the use of international standards in the nomenclature, consider: Standard format (e.g. 1,000 representing one thousand and 1.0 representing one). Values shall be directly given in SI units – or additionally to original units transferred to SI.	/POADD/ /METH/	<table border="1"> <thead> <tr> <th>Requirement</th> <th>OK</th> <th>Not OK</th> <th>N/A</th> </tr> </thead> <tbody> <tr><td>Label</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Data Unit</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Description</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Source of data</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Measurement equipment / measure method</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Monitoring frequency</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>QA/QC procedures</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Purpose of data</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </tbody> </table>	Requirement	OK	Not OK	N/A	Label	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Data Unit	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Source of data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Measurement equipment / measure method	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Monitoring frequency	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	QA/QC procedures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Purpose of data	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OK	OK																
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5. A_{PJ}	<i>Parameter (FOR HYDRO PLANTS): Area of the single or multiple reservoirs measured in the surface of the water, after the implementation of the project activity, when the reservoir is full</i>																																																											
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8. $W_{\text{steam,CH}_4,y}$	<u>Parameter</u> (FOR GEOTHERMAL PLANTS): Average mass fraction of methane in the produced steam in year y																																																			

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Appendix 6. Assessment of Applicability Criteria of Methodology

Table A-6.1: Assessment of Applicability Criteria – Generic component project activity (CPA) – METHOD FOR WIND, SOLAR, WAVE AND TIDAL PROJECTS

Applicability Criteria	Evidence used	Met	N/A	Assessment of validation team
For grid-connected renewable energy power generation project activities that: (a) install a Greenfield power plant; (b) involve a capacity addition to (an) existing plant(s); (c) involve a retrofit of (an) existing operating plant(s)/unit(s); (d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) involve a replacement of (an) existing plant(s)/unit(s).	/POADD/ /METH/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The generic CPA complies with the condition as it fits option (a), consisting in the implementation of new power plants/units (Greenfield plants).
The project activity may include renewable energy power plant/unit of one of the following types: hydro power plant/unit (either with or without reservoir), wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit.	/POADD/ /METH/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The generic CPA complies with the condition as it refers to renewable power plants/units of the following types: wind, solar, wave or tidal.
In the case of capacity additions, retrofits or replacements (except for wind, solar, wave or tidal power capacity addition projects) the existing plant started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity.	/POADD/ /METH/	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not applicable to the generic CPA as it refers to new renewable power plants/units.
In case of hydro power plants, one of the following conditions shall apply: (a) the project activity is implemented in an existing reservoir, with no change in the volume of reservoir; or (b) the project activity is implemented in an existing reservoir, where the volume of reservoir is increased and the power density calculated using equation (3) of the tool is greater than 4 W/m ² ; or (c) the project activity results in new single or multiple reservoirs and the power density calculated using equation (3) of the tool is greater than 4 W/m ² ; or (d) the project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs, calculated using equation (3) of the tool, is lower than or equal to 4 W/m ² , all of the following conditions shall apply: (i) the power density calculated using the total installed capacity of the integrated project, as per equation (4) of the tool, is greater than 4 W/m ² ; (ii) water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity; (iii) Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m ² shall be: a) lower than or equal to 15 MW; and b) less than 10 per cent of the total installed capacity of integrated hydro power project.	/POADD/ /METH/	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not applicable to the generic CPA as it refers to renewable power plants/units of the following types: wind, solar, wave or tidal.

In the case of integrated hydro power projects, project proponent shall: (a) demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project; or (b) provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for minimum five years prior to implementation of CDM project activity.	/POADD/ /METH/	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not applicable to the generic CPA as it refers to renewable power plants/units of the following types: wind, solar, wave or tidal.
The methodology is not applicable to: (a) project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site; (b) biomass fired power plants/units.	/POADD/ /METH/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The generic CPA complies with the condition as it does not refer to project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, nor biomass fired power plants/units.
In the case of retrofits, rehabilitations, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is "the continuation of the current situation, that is to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance".	/POADD/ /METH/	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not applicable to the generic CPA, as it does not consist in retrofit, rehabilitation, replacement, or capacity addition.
The applicability conditions included in the tools referred to in the applied methodology.	/POADD/ /METH/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The generic CPA complies with the condition as the CPAs shall accomplish to all requirements of the tools to which the methodology refers to.

Table A-6.2: Assessment of Applicability Criteria – Generic component project activity (CPA) – METHOD FOR SMALL HYDROPOWER PLANT PROJECTS WITH OR WITHOUT RESERVOIR

Applicability Criteria	Evidence used	Met	N/A	Assessment of validation team
For grid-connected renewable energy power generation project activities that: (a) install a Greenfield power plant; (b) involve a capacity addition to (an) existing plant(s); (c) involve a retrofit of (an) existing operating plant(s)/unit(s); (d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) involve a replacement of (an) existing plant(s)/unit(s).	/POADD/ /METH/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The generic CPA complies with the condition as it fits option (a), consisting in the implementation of new power plants/units (Greenfield plants).
The project activity may include renewable energy power plant/unit of one of the following types: hydro power plant/unit (either with or without reservoir), wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit.	/POADD/ /METH/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The generic CPA complies with the condition as it refers to renewable power plants/units of the following type: hydro.

In the case of capacity additions, retrofits or replacements (except for wind, solar, wave or tidal power capacity addition projects) the existing plant started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity.	/POADD/ /METH/	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not applicable to the generic CPA as it refers to new renewable power plants/units.
In case of hydro power plants, one of the following conditions shall apply: (a) the project activity is implemented in an existing reservoir, with no change in the volume of reservoir; or (b) the project activity is implemented in an existing reservoir, where the volume of reservoir is increased and the power density calculated using equation (3) of the tool is greater than 4 W/m ² ; or (c) the project activity results in new single or multiple reservoirs and the power density calculated using equation (3) of the tool is greater than 4 W/m ² ; or (d) the project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs, calculated using equation (3) of the tool, is lower than or equal to 4 W/m ² , all of the following conditions shall apply: (i) the power density calculated using the total installed capacity of the integrated project, as per equation (4) of the tool, is greater than 4 W/m ² ; (ii) water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity; (iii) Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m ² shall be: a) lower than or equal to 15 MW; and b) less than 10 per cent of the total installed capacity of integrated hydro power project.	/POADD/ /METH/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The generic CPA complies with the condition as it refers to renewable hydro power plants/units with or without reservoir.
In the case of integrated hydro power projects, project proponent shall: (a) demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project; or (b) provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for minimum five years prior to implementation of CDM project activity.	/POADD/ /METH/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The generic CPA refers to renewable hydro power plants/units with or without reservoir. So, it shall comply with the condition only in case of integrated hydro power projects.
The methodology is not applicable to: (a) project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site; (b) biomass fired power plants/units.	/POADD/ /METH/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The generic CPA complies with the condition as it does not refer to project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, nor biomass fired power plants/units.
In the case of retrofits, rehabilitations, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is "the continuation of the current situation, that is to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance".	/POADD/ /METH/	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not applicable to the generic CPA, as it does not consist in retrofit, rehabilitation, replacement, or capacity addition.

The applicability conditions included in the tools referred to in the applied methodology.	/POADD/ /METH/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The generic CPA complies with the condition as the CPAs shall accomplish to all requirements of the tools to which the methodology refers to.
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Table A-6.3: Assessment of Applicability Criteria – Generic component project activity (CPA) – METHOD FOR GEOTHERMAL PROJECTS

Applicability Criteria	Evidence used	Met	N/A	Assessment of validation team
For grid-connected renewable energy power generation project activities that: (a) install a Greenfield power plant; (b) involve a capacity addition to (an) existing plant(s); (c) involve a retrofit of (an) existing operating plant(s)/unit(s); (d) Involve a rehabilitation of (an) existing plant(s)/unit(s); or (e) involve a replacement of (an) existing plant(s)/unit(s).	/POADD/ /METH/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The generic CPA complies with the condition as it fits option (a), consisting in the implementation of new power plants/units (Greenfield plants).
The project activity may include renewable energy power plant/unit of one of the following types: hydro power plant/unit (either with or without reservoir), wind power plant/unit, geothermal power plant/unit, solar power plant/unit, wave power plant/unit or tidal power plant/unit.	/POADD/ /METH/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The generic CPA complies with the condition as it refers to renewable power plants/units of the following type: geothermal.
In the case of capacity additions, retrofits or replacements (except for wind, solar, wave or tidal power capacity addition projects) the existing plant started commercial operation prior to the start of a minimum historical reference period of five years, used for the calculation of baseline emissions and defined in the baseline emission section, and no capacity expansion, retrofit, or rehabilitation of the plant/unit has been undertaken between the start of this minimum historical reference period and the implementation of the project activity.	/POADD/ /METH/	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not applicable to the generic CPA as it refers to new renewable power plants/units.
In case of hydro power plants, one of the following conditions shall apply: (a) the project activity is implemented in an existing reservoir, with no change in the volume of reservoir; or (b) the project activity is implemented in an existing reservoir, where the volume of reservoir is increased and the power density calculated using equation (3) of the tool is greater than 4 W/m ² ; or (c) the project activity results in new single or multiple reservoirs and the power density calculated using equation (3) of the tool is greater than 4 W/m ² ; or (d) the project activity is an integrated hydro power project involving multiple reservoirs, where the power density for any of the reservoirs, calculated using equation (3) of the tool, is lower than or equal to 4 W/m ² , all of the following conditions shall apply: (i) the power density calculated using the total installed capacity of the integrated project, as per equation (4) of the tool, is greater than 4 W/m ² ; (ii) water flow between reservoirs is not used by any other hydropower unit which is not a part of the project activity; (iii) Installed capacity of the power plant(s) with power density lower than or equal to 4 W/m ² shall be: a) lower than or equal to 15 MW; and b) less than 10 per cent of the total installed capacity of integrated hydro power project.	/POADD/ /METH/	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not applicable to the generic CPA as it refers to renewable power plants/units of the following type: geothermal.

In the case of integrated hydro power projects, project proponent shall: (a) demonstrate that water flow from upstream power plants/units spill directly to the downstream reservoir and that collectively constitute to the generation capacity of the integrated hydro power project; or (b) provide an analysis of the water balance covering the water fed to power units, with all possible combinations of reservoirs and without the construction of reservoirs. The purpose of water balance is to demonstrate the requirement of specific combination of reservoirs constructed under CDM project activity for the optimization of power output. This demonstration has to be carried out in the specific scenario of water availability in different seasons to optimize the water flow at the inlet of power units. Therefore this water balance will take into account seasonal flows from river, tributaries (if any), and rainfall for minimum five years prior to implementation of CDM project activity.	/POADD/ /METH/	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not applicable to the generic CPA as it refers to renewable power plants/units of the following type: geothermal.
The methodology is not applicable to: (a) project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, since in this case the baseline may be the continued use of fossil fuels at the site; (b) biomass fired power plants/units.	/POADD/ /METH/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The generic CPA complies with the condition as it does not refer to project activities that involve switching from fossil fuels to renewable energy sources at the site of the project activity, nor biomass fired power plants/units.
In the case of retrofits, rehabilitations, replacements, or capacity additions, this methodology is only applicable if the most plausible baseline scenario, as a result of the identification of baseline scenario, is "the continuation of the current situation, that is to use the power generation equipment that was already in use prior to the implementation of the project activity and undertaking business as usual maintenance".	/POADD/ /METH/	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Not applicable to the generic CPA, as it does not consist in retrofit, rehabilitation, replacement, or capacity addition.
The applicability conditions included in the tools referred to in the applied methodology.	/POADD/ /METH/	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The generic CPA complies with the condition as the CPAs shall accomplish to all requirements of the tools to which the methodology refers to.

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